

Question Paper Preview

Question Paper Name: Mathematics 6th May 2019 S1
Subject Name: MATHEMATICS
Duration: 120
Share Answer Key With Delivery Engine: Yes
Actual Answer Key: Yes

Display Number Panel: General English
Group All Questions: Yes
No

Question Id : 2767703637 **Question Type :** COMPREHENSION **Sub Question Shuffling Allowed :** Yes **Group Comprehension Questions :** No

Question Numbers : (1 to 5)

Question Label : Comprehension

Read the following passage and answer the questions that follows:

Mankind is one, but people belong to different backgrounds. They are at different stages of historical evolution and they hold diverse political beliefs. This diversity is essential for the very existence of the world. Attempts to impose doctrines of uniformity have not only failed but have proved to be a danger to peace. Our policies are based on appreciation of this truth co-existence, although regarded by some as truism, is still the only possible basis for international relations. It is rooted in present day realities and provides the framework for the survival of the human race.

Sub questions

Question Number : 1 **Question Id :** 2767703638 **Question Type :** MCQ **Option Shuffling :** No **Display Question Number :** Yes
Single Line Question Option : No **Option Orientation :** Vertical

Uniformity of the World is ____

Options :

1. Beneficial
2. Possible

3. Impossible

4. Dangerous

Question Number : 2 Question Id : 2767703639 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

People usually have different ____

Options :

1. Bodily passions

2. Political beliefs

3. Existences

4. Relationships

Question Number : 3 Question Id : 2767703640 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The basis for international relations is ____

Options :

1. Political beliefs

2. Survival of man

3. Co-existence

4. Diversity

Question Number : 4 Question Id : 2767703641 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The present day situation demands ____

Options :

1. Essentialism

2. Hedonism

3. Existentialism

4. Co-existence

Question Number : 5 Question Id : 2767703642 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

'Truism' means ____

Options :

1. A truth which is not worth noticing

2. A statement that is so obviously true that it is almost not worth saying

3. An argument worth noticing unanimously

4. An issue never accepted by any body even secretly

Question Number : 6 Question Id : 2767703643 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

"Hobson's Choice" means:

Options :

1. Choice to live or die

2. No choice as there is only one thing

3. Excellent choice

4. The people's choice

Question Number : 7 Question Id : 2767703644 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Choose the correct preposition to fill in the blanks

He was leaning____ the wall

Options :

1. on
2. at
3. against
4. in

Question Number : 8 Question Id : 2767703645 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Chose the correct preposition to fill in the blanks:

He held the umbrella___ his head

Options :

1. upon
2. at
3. on
4. over

Question Number : 9 Question Id : 2767703646 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Each word given below is spelt differently. Choose the rightly spelt word

Options :

1. example
2. strecture
3. grammer
4. professar

Question Number : 10 Question Id : 2767703647 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Pick out the most suitable word to complete the sentence:

An insect with many legs is called___

Options :

1. vertibrate
2. centipeda
3. mammel
4. mercenairy

Question Number : 11 Question Id : 2767703648 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

“The Alfa and Omega” means ____

Options :

1. A Shakesperean play
2. Beginning and end
3. A Greek god and demon
4. To be good and bad

Question Number : 12 Question Id : 2767703649 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Choose the appropriate verb from the following:

My friend _____ you tomorrow

Options :

1. meet
2. meat
3. will meet
4. was meeting

Question Number : 13 Question Id : 2767703650 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The synonym of the word ‘passive’ is ____

Options :

1. Agitate
2. Active
3. Static
4. Dynamic

Question Number : 14 Question Id : 2767703651 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The antonym of the word 'swift' is ____

Options :

1. Slow
2. Hasty
3. Rapid
4. hurried

Question Number : 15 Question Id : 2767703652 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

An example for the Exclamatory sentence is ____

Options :

1. When did you see him?
2. I saw him yesterday.
3. What a surprise!
4. It is a sweet dish.

Question Number : 16 Question Id : 2767703653 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The correct form of the changed voice of the sentence

"Pratima was singing a song" is ____

Options :

1. A song was sung by Pratima
2. A song was being sung by Pratima
3. A song was singing by Pratima
4. A song had been sung by Pratima

Question Number : 17 Question Id : 2767703654 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

He asked "shall I ever pass this course?" ____ The correct reported speech of the above sentence is ____

Options :

1. He asked that he ever pass the course
2. He asked that should he ever pass that course
3. I asked shall he ever pass that course
4. He wondered if he would ever pass that course

Question Number : 18 Question Id : 2767703655 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

"They have not come"

The appropriate tag for the statement is ____

Options :

1. Have not they?
2. Has they?
3. Have they?
4. Hasn't they?

Question Number : 19 Question Id : 2767703656 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

We shall definitely ____ the difficulty

Options :

1. Overcame
2. Overcome
3. Overcoming
4. Be overcome

Question Number : 20 Question Id : 2767703657 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

He would have passed, if he had studied _____

Options :

1. Harder
2. Hard
3. Hardly
4. harded

Question Number : 21 Question Id : 2767703658 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Revange is ____main theme of the play

Options :

1. An
2. A
3. The
4. as

Question Number : 22 Question Id : 2767703659 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

As he has ____ umbrella, he ventured into the rain

Options :

1. A
2. An
3. The
4. on

Question Number : 23 Question Id : 2767703660 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Nothing else travels so fast as light

The comparative degree of the above sentence is ____

Options :

1. Nothing else travels faster to light
2. Light is the fastest traveller
3. Light is travelling fast than anything else
4. Light travels faster than anything else

Question Number : 24 Question Id : 2767703661 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The house was ____ the river

Options :

1. Besides
2. Beside
3. On
4. Across

Question Number : 25 Question Id : 2767703662 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

He has been absent ____ Monday last

Options :

1. Since

2. For
3. From
4. upto

General Knowledge

Display Number Panel:

Yes

Group All Questions:

No

Question Number : 26 Question Id : 2767703663 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Imran Khan took charge as Prime Minister of Pakistan on ...

పాకిస్తాన్ ప్రధానమంత్రిగా ఇమ్రాన్ ఖాన్ పదవి స్వీకరించిన దినము

Options :

1. 18th September, 2018
సెప్టెంబరు 18, 2018

2. 18th July, 2018
జూలై 18, 2018

3. 16th August, 2018
ఆగస్టు 16, 2018

4. 18th August, 2018
ఆగస్టు 18, 2018

Question Number : 27 Question Id : 2767703664 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Who is the first Chief Woman Economist at International Monetary Fund?

అంతర్జాతీయ ద్రవ్యనిధి మొదటి ముఖ్యమహిళా ఆర్థికవేత్త ఎవరు?

Options :

Chanda Kochar

చందాకొచ్చర్

1.

Arundathi Battacharya

అరుంధతి భట్టాచార్య

2.

Geeta Gopinath

గీతా గోపినాథ్

3.

Indira Nooyi

ఇందిరా నూయి

4.

Question Number : 28 Question Id : 2767703665 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Which of the following is related to 'Ayushman Bharat'?

'ఆయుష్మాన్ భారత్' అనునది క్రింది వాటిలో దేనికి సంబంధించినది?

Options :

Education

విద్య

1.

Transport

రవాణా

2.

Health

ఆరోగ్యం

3.

Children

పిల్లలు

4.

Question Number : 29 Question Id : 2767703666 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Which among the following is not a core sector of Indian

Economy?

భారత ఆర్థిక వ్యవస్థలో క్రింది వానిలో ప్రత్యేకరంగం కానిది ఏది?

Options :

Pharmaceutical

1. ఔషధం

Cement

2. సిమెంట్

Electricity

3. విద్యుత్తు

Coal

4. బొగ్గు

Question Number : 30 Question Id : 2767703667 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Who among the following is the present Governor of Reserve Bank of India (RBI)?

భారతీయ రిజర్వ్ బ్యాంకు ప్రస్తుత గవర్నరు ఎవరు?

Options :

Raghuram Rajan

1. రఘురాం రాజన్

Shaktikanta Das

2. శక్తి కంఠ దాస్

Rajiv Mehrishi

3. రాజీవ్ మెహ్రీషి

Urjit Patel

4. ఉర్జిత్ పటేల్

Question Number : 31 Question Id : 2767703668 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Which state government has launched 'Nutan Disha Initiative' to provide training to teachers?

ఉపాధ్యాయుల శిక్షణ కొరకు ఏ రాష్ట్ర ప్రభుత్వం 'నూతన్ దిశ' అనే కార్యక్రమాన్ని ప్రారంభించింది?

Options :

1. Nagaland
నాగాలాండ్

2. Tripura
త్రిపుర

3. Mizoram
మిజోరాం

4. Arunachal Pradesh
అరుణాచల్ ప్రదేశ్

Question Number : 32 Question Id : 2767703669 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The present Director of the Vikram Sarabhai Space Centre is ...

‘విక్రమ సారాభాయి స్పేస్ సెంటర్’ ప్రస్తుత డైరెక్టరు ...

Options :

1. Raghuveer Singh
రఘువీర్ సింగ్

2. K. Sivan
కె. శివన్

3. Manpreet Singh
మాన్ ప్రీత్ సింగ్

4. S. Somanath
యస్. సోమనాథ్

Question Number : 33 Question Id : 2767703670 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

‘Ajaadi Ke Diwane Museum’ has recently been inaugurated in
which of the following cities?

క్రింది ఏ నగరంలో ఇటీవల ‘ఆజాద్ కి దివానీ మ్యూజియం’ను
ప్రారంభించారు?

Options :

1. Pune
పూనె
2. Ahmadabad
అహమ్మదాబాద్
3. New Delhi
న్యూఢిల్లీ
4. Varanasi
వారణాసి

Question Number : 34 Question Id : 2767703671 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The author of the book “Designing Destiny : The Heart fulness way” is ...

‘డిజైనింగ్ డెస్టిని - హార్ట్ ఫుల్ నెస్ వే’ అను గ్రంథ రచయిత

Options :

1. Kamlesh patel
కమలేష్ పటేల్
2. Bikram Chowdary
బిక్రం చౌదరి
3. Rajashree Chowdary
రాజశ్రీ చౌదరి
4. Arunava Sinha
అరునవ సిన్హా

Question Number : 35 Question Id : 2767703672 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Which is the fastest train in India?

ఇండియాలో అతి వేగవంతమైన రైలు ఏది?

Options :

1. Rajadhani Express
రాజధాని ఎక్స్‌ప్రెస్

2. Shatabdi Express
శతాబ్ది ఎక్స్‌ప్రెస్

3. Vande Bharat Express
వందే భారత్ ఎక్స్‌ప్రెస్

4. Gatimaan Express
గాటిమాన్ ఎక్స్‌ప్రెస్

Question Number : 36 Question Id : 2767703673 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The author of the book “281 and Beyond” is

‘281 మరియు అవతల’ అను పుస్తక రచయిత

Options :

1. Alok Sukla
అలోక్ సుక్లా

2. V.V.S.Lakhman
వి.వి.ఎస్.లక్ష్మన్

3. Sashi Taroor
శశిధరూర్

4. Priyanka Pathak
ప్రియాంక పాఠక్

Question Number : 37 Question Id : 2767703674 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Who among the following is the winner of Noble peace prize for 2018?

క్రింది వానిలో ఎవరు 2018 నోబుల్ శాంతి బహుమతి గ్రహీత?

Options :

1. Nadia Murad
నదియా మురాద్

2. Paul Romer
పాల్ రోమర్

3. William Nordhaus
విలియం నోర్థౌస్

4. Frances Arnold
ఫ్రాన్సెస్ ఆర్నాల్డ్

Question Number : 38 Question Id : 2767703675 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

On which day 'UN AIDS ZERO Discrimination Day' is observed?

ఐక్యరాజ్యసమితి 'ఎయిడ్స్ వివక్షత లేని దినాన్ని' జరుపుకొనే తేది?

Options :

1. 4th March
మార్చి 4వ తేది

2. 1st March
మార్చి 1వ తేది

3. 2nd March
మార్చి 2వ తేది

4. 3rd March
మార్చి 3వ తేది

Question Number : 39 Question Id : 2767703676 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Who is the chief of Defence Research Development Organization

(DRDO)?

'రక్షణ పరిశోధన అభివృద్ధి సంస్థ' ముఖ్యాధికారి ఎవరు?

Options :

1. K. Sivan
కె. శివన్
2. Punit Goenka
పునీత్ గోయంకా
3. S. Somanath
ఎస్. సోమనాథ్
4. Satheesh Reddy. G
సతీష్ రెడ్డి, జి.

Question Number : 40 Question Id : 2767703677 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Who is the Chairman of the Empowered Committee of the State
Finance Ministers?

రాష్ట్ర ఆర్థిక మంత్రిుల సాధికారిక కమిటీ అధ్యక్షుడు ఎవరు?

Options :

1. Kamalesh Patel
కమలేష్ పటేల్
2. Suresh Mehta
సురేష్ మెహతా
3. Amith Mitra
అమిత్ మిత్రా
4. Bhagat Singh Koshiyari
భగత్ సింగ్ కొష్యారి

Teaching Aptitude

Display Number Panel:
Group All Questions:

Yes
No

Learning means ____

అభ్యసనమనగా ____

Options :

Training

1. శిక్షణ

Change in behaviour

2. ప్రవర్తనలో మార్పు

Individual's experience

3. వ్యక్తి యొక్క అనుభవము

Acquisition of knowledge

4. విజ్ఞాన సముపార్జన

The existing pattern of educational system in Andhra Pradesh is ____

ప్రస్తుతం ఆంధ్రప్రదేశ్‌లో వున్న విద్యా విధానము ____

Options :

1. 10+2+3

2. 12+3

3. 11+1+3

4. 10 + 2 + 4

To become a teacher, a person should basically have ____

ఒక వ్యక్తి ఉపాధ్యాయుడు కావాలంటే అతని ప్రాథమికంగా

ఉండవలసినది ____

Options :

Knowledge

1. జ్ఞానం

Intelligence

2. ప్రజ్ఞ

Aptitude

3. అభిరుచి

Attitude

4. నైఖరి

Question Number : 44 Question Id : 2767703681 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The purpose of education is ____

విద్య యొక్క ఉద్దేశ్యమేమంటే ____

Options :

To earn

1. సంపాదన

To become self dependent

2. వ్యక్తి తన కాళ్ళపై తాను నిలబడుట

To become a scholar

3. పండితుడుకావడం

To gain prestige

4. గౌరవము పొందడం

Question Number : 45 Question Id : 2767703682 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

What to do with the student who often asks questions?

తరచుగా ప్రశ్నలడిగే విద్యార్థిని ఏమి చేయాలి?

Options :

Appreciating the student and clarify the doubts

1. ప్రశ్నలు అడిగినందుకు విద్యార్థిని అభినందిస్తూ సందేహనివృత్తి చేయడం.

Encourage the student to find out the answer by himself

2. తన సందేహాలకు స్వయంగా సమాధానం విద్యార్థిని కనుగొనమని ప్రోత్సహించడం

Asking the student to meet after the class

3. క్లాసు అయిన తరువాత విద్యార్థిని కలవమని చెప్పడం

Advising the student not to disturb the class

4. తరగతిలో అంతరాయం కల్గించవద్దని విద్యార్థిని సలహా ఇవ్వడం.

Question Number : 46 Question Id : 2767703683 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Communication will be effective, if it is ____

భావప్రసరణ విప్పుడు సమర్థవంతమౌతుందంటే ____

Options :

Delivered slowly and clearly

1. నిదానంగా, స్పష్టంగా చెప్పినపుడు

Delivered using appropriate media

2. సరియైన మాధ్యమం వినియోగించినపుడు

Received as intended by the sender

3. చెప్పే వాని భావాన్ని యథాతథంగా గ్రహించినపుడు

Received immediately

4. వెంటనే గ్రహించినపుడు

Question Number : 47 Question Id : 2767703684 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Basic tool for modernization ____

ఆధునికీకరణకు ముఖ్యసాధనం ____

Options :

Education

1. విద్య

Mass media

2. ప్రచారసాధనాలు

Voluntary organizations

స్వచ్ఛంద సంస్థలు

3.

Politics

రాజకీయాలు

4.

Question Number : 48 Question Id : 2767703685 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

For an efficient and durable learning, learner should have____

సమర్థవంతమైన, మన్నికైన అభ్యసనకు, అభ్యాసకునికి కావలసినది____

Options :

Ability to learn only

నేర్చుకొనుటకు కావలసిన సామర్థ్యం మాత్రమే

1.

Requisite level of motivation only

కావలసిన ప్రేరణ స్థాయి మాత్రమే

2.

Opportunities to learn only

నేర్చుకొనుటకు కావలసిన అవకాశాలు మాత్రమే

3.

Desired level of ability and motivation only

ఆశించిన సామర్థ్యం మరియు ప్రేరణ స్థాయి మాత్రమే

4.

Question Number : 49 Question Id : 2767703686 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

An ideal curriculum should be____

ఆదర్శవంతమైన పాఠ్యవిషయాలు____

Options :

Learner centered

అభ్యాసకుని కేంద్రీకృతమైనది

1.

Teacher centered

ఉపాధ్యాయ కేంద్రీకృతమైనది

2.

3. Head master centered
ప్రధానోపాధ్యాయ కేంద్రీకృతమైనది

4. Content centered
విషయ కేంద్రీకృతమైనది

Question Number : 50 Question Id : 2767703687 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Interaction inside the classroom should generate____
తరగతి గదిలో పరస్పర సంభాషణ వలన కలుగు ఫలితము____

Options :

Argument
1. వాదన

Information
2. సమాచారం

New ideas
3. నూతనభావాలు

Controversies
4. వివాదాస్పదాలు

Mathematics

Display Number Panel:

Yes

Group All Questions:

No

Question Number : 51 Question Id : 2767703688 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Roots of the auxiliary equation of $(D^3-2D^2-3D)Y=0$ is
 $(D^3-2D^2-3D)Y=0$ యొక్క సహాయక సమీకరణముకు మూలాలు

Options :

1. 0,3,1

2. 0,3,2

3. 0,0,1

4. 0,3,-1

Question Number : 52 Question Id : 2767703689 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Integrating factor of $\frac{dy}{dx} + 2xy = e^{-x^2}$ is

$\frac{dy}{dx} + 2xy = e^{-x^2}$ యొక్క సమాకలన గుణకము

Options :

1. e^{2x}

2. e^x

3. e^{x^2}

4. e^{-x^2}

Question Number : 53 Question Id : 2767703690 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The orthogonal trajectories of $r = a(1 - \cos \theta)$ is

$r = a(1 - \cos \theta)$ యొక్క లంబసంఛేద సమీకరణము

Options :

1. $r = b(1 - \cos \theta)$

2. $r = a(1 + \cos \theta)$

3. $r = b \cos \theta$

4. $r = b(1 + \cos \theta)$

Question Number : 54 Question Id : 2767703691 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Solution of $y=(x-a)p-p^2$ is

$$y=(x-a)p-p^2 \text{ యొక్క సాధన}$$

Options :

1. $y=cx-ca-c^2$

2. $y=cx+ca+c^2$

3. $y=cx+ca+ax$

4. $y=\frac{c}{x}+ca+c^2$

Question Number : 55 Question Id : 2767703692 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Particular integral of $\frac{1}{D-1}2x^2$ is

$$\frac{1}{D-1}2x^2 \text{ యొక్క ప్రత్యేక సమాకలని}$$

Options :

1. $2x^2+4x+4$

2. $-(2x^2+4x+4)$

3. $-(4x^2+2x+4)$

4. $4x^2+4x+2$

Question Number : 56 Question Id : 2767703693 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

$y=e^{-ax}$ is a solution of $\frac{d^2y}{dx^2}+P\frac{dy}{dx}+Qy=0$ only when

$$\frac{d^2y}{dx^2}+P\frac{dy}{dx}+Qy=0 \text{ కు } y=e^{-ax} \text{ ఒక సాధన కావాలంటే}$$

Options :

1. $1-P+Q=0$

2. $1+P+Q=0$

3. $1+Px=0$

4. $Px+Q=0$

Question Number : 57 Question Id : 2767703694 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

For what value of n, the differential equation

$$(xy^2 + nx^2y) dx + (x^3 + x^2y) dy = 0 \text{ is exact?}$$

n యొక్క ఏ విలువకు $(xy^2 + nx^2y) dx + (x^3 + x^2y) dy = 0$

అవకలన సమీకరణము యదార్థమవుతుంది

Options :

1. 1

2. 2

3. 3

4. 0

Question Number : 58 Question Id : 2767703695 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

$$\frac{1}{D^2 + D + 1} \sin x =$$

Options :

1. $\sin x$

2. $\cos x$

3. $\frac{1}{3} \sin x$

4. $-\cos x$

Question Number : 59 Question Id : 2767703696 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Solution of $x \frac{dy}{dx} + y = xy^3$ is

$x \frac{dy}{dx} + y = xy^3$ యొక్క సాధన

Options :

1. $\frac{1}{y^2} = 2x + cx^2$

2. $\frac{1}{y^2} = \frac{2}{x} - cx$

3. $\frac{1}{y^2} = \frac{2}{x} + c$

4. $\frac{1}{y} = \frac{2}{x} + cx^2$

Question Number : 60 Question Id : 2767703697 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Particular integral of $(D^2 + a^2) y = \cos ax$

$(D^2 + a^2) y = \cos ax$ యొక్క ప్రత్యేక సమకలని

Options :

1. $\frac{x}{2a} \cos ax$

2. $\frac{x}{2a} \sin ax$

3. $\frac{\cos ax}{2a}$

4. $\frac{\sin ax}{2a}$

Question Number : 61 Question Id : 2767703698 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The general solution of $(x^2 D^2 + 4x D + 2) y = 0$ is

$(x^2 D^2 + 4x D + 2) y = 0$ యొక్క సాధారణ సాధన

Options :

1. $y = c_1x^2 + c_2x^3$

2. $y = c_1x + c_2x^2$

3. $y = \frac{c_1}{x} + \frac{c_2}{x^2}$

4. $y = \frac{c_1}{x^3} + \frac{c_2}{x^2}$

Question Number : 62 Question Id : 2767703699 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Solution of $4\frac{d^2y}{dx^2} - 4\frac{dy}{dx} + y = 0$ satisfying $y = -2$ and $y' = 2$ when $x = 0$ is

$x = 0$ అయినప్పుడు $y = -2$ మరియు $y' = 2$ లను తృప్తిపరిచే

$4\frac{d^2y}{dx^2} - 4\frac{dy}{dx} + y = 0$ యొక్క సాధన

Options :

1. $y = (3x - 2)e^{x/2}$

2. $y = (3x - 1)e^{x/2}$

3. $y = e^{\frac{x}{2}} + e^x$

4. $y = (2x - 3)e^x$

Question Number : 63 Question Id : 2767703700 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The solution of $p^2 - 5p + 6 = 0 \left(p = \frac{dy}{dx} \right)$ is

$p^2 - 5p + 6 = 0 \left(p = \frac{dy}{dx} \right)$ యొక్క సాధన

Options :

1. $(y + 3x)(y - 2x - c) = 0$

2. $(y-3x-c)(y+2x-c)=0$

3. $(y+3x+c)(y+2x+c)=0$

4. $(y-3x-c)(y-2x-c)=0$

Question Number : 64 Question Id : 2767703701 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The equation $x(1+y^2) dx + \tan^{-1}y dy=0$ is satisfied by
 $x(1+y^2) dx + \tan^{-1}y dy = 0$ సమీకరణాన్ని తృప్తి పర్చేది

Options :

1. $y = \tan(c-x^2)$

2. $y = \tan \sqrt{c-x^2}$

3. $y = \tan x$

4. $y = \tan x^2$

Question Number : 65 Question Id : 2767703702 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The number of arbitrary constants in a differential equation with
degree 2 and order 3 is

తరగతి 2 మరియు పరిమాణము 3గా గల అవకలన సమీకరణం యొక్క
యాదృచ్ఛిక స్థిరాంకాల సంఖ్య

Options :

1. 3

2. 5

3. 6

4. 2

The general solution of $\frac{dy}{dx} = e^{x+y}$ is

$$\frac{dy}{dx} = e^{x+y} \text{ యొక్క సాధారణ సాధన}$$

Options :

1. $e^{-x} + e^{-y} = c$

2. $e^x + e^{-y} = c$

3. $e^x - e^{-y} = c$

4. $e^{-x} - e^{-y} = c$

Wronskian of e^x, e^{2x}, e^{3x} is

$$e^x, e^{2x}, e^{3x} \text{ యొక్క రాంస్కియన్}$$

Options :

1. $2e^{2x}$

2. e^{4x}

3. $2e^{4x}$

4. $2e^{6x}$

Particular solution of $\frac{d^3y}{dx^2} + a^2 \frac{dy}{dx} = \sin ax, a \in \mathbb{R} - \{0\}$ is

$$\frac{d^3y}{dx^2} + a^2 \frac{dy}{dx} = \sin ax, a \in \mathbb{R} - \{0\} \text{ యొక్క ప్రత్యేక సాధనము}$$

Options :

1. $y = \frac{x^2}{2a} \sin ax$

2. $y = \frac{ax^2}{4} \sin ax$

3. $y = -\frac{x}{2a^2} \sin ax$

4. $y = -\frac{x}{2a} \sin ax$

Question Number : 69 Question Id : 2767703706 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Particular integral of $(D^3 - 4D^2) y = 5$ is
 $(D^3 - 4D^2) y = 5$ యొక్క ప్రత్యేక సమాకలని

Options :

1. $-\frac{5}{8}x$

2. $-\frac{5}{8}x^2$

3. $\frac{5}{4}x^2$

4. $-\frac{5}{4}x^2$

Question Number : 70 Question Id : 2767703707 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The solution of $P = \sin(y - px)$ is
 $P = \sin(y - px)$ యొక్క సాధన

Options :

1. $y - cx = \sin^{-1}c$

2. $y - x = c \sin^{-1}c$

$$y = cx + \text{sinc}$$

3.

$$y + cx = \text{sinc}$$

4.

Question Number : 71 Question Id : 2767703708 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The xz plane divides the line joining points (2,4,5) and (3,5,-4) in the ratio

(2, 4, 5) మరియు (3, 5, -4) బిందువులను కలుపు రేఖను xz తలము

విభజించే నిష్పత్తి

Options :

$$1. \quad 2:3$$

$$2. \quad -2:3$$

$$3. \quad -4:5$$

$$4. \quad 4:5$$

Question Number : 72 Question Id : 2767703709 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If $A=(1,-2,3)$, $B=(2,3,-4)$ then the D.Cs of the ray $\overline{AB}$ is

$A = (1, -2, 3)$, $B = (2, 3, -4)$ అయిన $\overline{AB}$ రేఖ యొక్క డి.సి.లు

కనుక్కోండి

Options :

$$1. \quad \left(\frac{1}{\sqrt{75}}, \frac{5}{\sqrt{75}}, \frac{7}{\sqrt{75}} \right)$$

$$2. \quad \left(\frac{-1}{\sqrt{75}}, \frac{5}{\sqrt{75}}, \frac{7}{\sqrt{75}} \right)$$

$$3. \quad \left(\frac{1}{\sqrt{75}}, \frac{5}{\sqrt{75}}, \frac{-7}{\sqrt{75}} \right)$$

$$4. \quad \left(\frac{-1}{\sqrt{75}}, \frac{-5}{\sqrt{75}}, \frac{7}{\sqrt{75}} \right)$$

Question Number : 73 Question Id : 2767703710 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The perpendicular distance of the point (1,-2,8) from the plane
 $2x-3y+6z = 63$ is
 $2x - 3y + 6z = 63$ తలానికి (1, -2, 8) నుండి గీచిన లంబదూరము

Options :

1. 0
2. -1
3. 1
4. 5

Question Number : 74 Question Id : 2767703711 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If the lines $\frac{x-1}{-3} = \frac{y-2}{2k} = \frac{y-3}{2}$ and $\frac{x-1}{3k} = \frac{y-5}{1} = \frac{z-6}{-5}$ are
perpendicular to each other then value of k is
 $\frac{x-1}{-3} = \frac{y-2}{2k} = \frac{y-3}{2}$ మరియు $\frac{x-1}{3k} = \frac{y-5}{1} = \frac{z-6}{-5}$ రేఖలు పరస్పర
లంబాలుగా వున్నప్పుడు k విలువ

Options :

1. $\frac{10}{7}$
2. $\frac{-7}{10}$
3. $\frac{20}{7}$
4. $\frac{-10}{7}$

Question Number : 75 Question Id : 2767703712 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The angle θ between the pair of planes $2x^2 - 2y^2 + 4z^2 + 2yz + 6zx + 3xy = 0$ satisfies
 $2x^2 - 2y^2 + 4z^2 + 2yz + 6zx + 3xy = 0$ తలయుగ్మాల మధ్యకోణం θ ను
తృప్తిపరిచేది

Options :

1. $\sin \theta = \frac{4}{9}$

2. $\cos \theta = \frac{4}{9}$

3. $\tan \theta = \frac{\sqrt{65}}{2}$

4. $\tan \theta = \frac{4}{9}$

Question Number : 76 Question Id : 2767703713 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The angle between the lines, whose direction ratios are 1,1,2 and $\sqrt{3}-1, -\sqrt{3}-1, 1$ is

1, 1, 2 మరియు $\sqrt{3}-1, -\sqrt{3}-1, 1$ దిక్ నిష్పత్తులు గల రేఖల మధ్య కోణము

Options :

1. 30°

2. 60°

3. 90°

4. 180°

Question Number : 77 Question Id : 2767703714 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The d.rs of the projection of the line $\frac{x-4}{3} = \frac{y-2}{4} = \frac{z-1}{2}$ in the plane

$$9x+8y+2z-1=0$$

$9x+8y+2z-1=0$ తలంలో $\frac{x-4}{3} = \frac{y-2}{4} = \frac{z-1}{2}$ రేఖ యొక్క

విక్షేపమునకు దిక్ సంఖ్యలు

Options :

1. -30,23,43

2. 30,-23,43

3. 23,-30,35

4. 20,30,35

Question Number : 78 Question Id : 2767703715 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The interior point of the sphere $x^2 + y^2 + z^2 = 12$ is
 $x^2 + y^2 + z^2 = 12$ గోళమునకు అంతర బిందువు

Options :

1. (4,0,0)

2. (1,2,3)

3. (1,0,2)

4. (1,1,2)

Question Number : 79 Question Id : 2767703716 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If the radius of the sphere $x^2 + y^2 + z^2 + 6x - 8y - t = 0$ is 6, then
value of t is

$x^2 + y^2 + z^2 + 6x - 8y - t = 0$ అనే గోళానికి వ్యాసార్థము 6 అయితే

t విలువ

Options :

1. 10

2. 11

3. 3

4. 0

Distance between the parallel planes $x + 2y - 2z + 1 = 0$,

$2x + 4y - 4z + 5 = 0$ is

$x + 2y - 2z + 1 = 0$, $2x + 4y - 4z + 5 = 0$ సమాంతర తలాల

మధ్య దూరము

Options :

1. $\frac{1}{2}$

2. 1

3. 2

4. 0

Angle between the lines $\frac{x}{1} = \frac{y}{2} = \frac{z}{1}$ and $\frac{x}{1} = \frac{y}{-1} = \frac{z}{1}$ is

$\frac{x}{1} = \frac{y}{2} = \frac{z}{1}$ మరియు $\frac{x}{1} = \frac{y}{-1} = \frac{z}{1}$ రేఖల మధ్య కోణము

Options :

1. 45°

2. 90°

3. 180°

4. 270°

Pole of the plane $x - y + 5z - 3 = 0$ w.r.t. the sphere $x^2 + y^2 + z^2 = 9$ is

$x^2 + y^2 + z^2 = 9$ గోళము దృష్ట్యా $x - y + 5z - 3 = 0$ తలం యొక్క దృవము

Options :

1. (3,3,3)

2. $(3,-3,3)$

3. $(3,15,15)$

4. $(3,-3,15)$

Question Number : 83 Question Id : 2767703720 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The centre and radius of the sphere $x^2 + y^2 + z^2 - 2x + 4y - 6z = 11$ are

$x^2 + y^2 + z^2 - 2x + 4y - 6z = 11$ గోళము యొక్క కేంద్రము మరియు వ్యాసార్థము

Options :

1. $(1,-2,1),3$

2. $(1,-2,5),3$

3. $(1,-2,3),5$

4. $(3,1,3),2$

Question Number : 84 Question Id : 2767703721 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If the right circular cone has three mutually perpendicular generators, then its semi-vertical angle is

ఒక లంబ వృత్తీయ శంకువుకు మూడు పరస్పర లంబ జనక రేఖలు వున్న దాని శీర్షార్థకోణము

Options :

1. $\tan^{-1} \sqrt{2}$

2. $\tan^{-1} \frac{1}{2}$

3. $\tan^{-1} \sqrt{3}$

$$\tan^{-1} \frac{1}{\sqrt{2}}$$

4.

Question Number : 85 Question Id : 2767703722 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The condition that one plane $ux + vy + wz = 0$ may touch the cone $ax^2 + by^2 + cz^2 = 0$ is

$ux + vy + wz = 0$ అనుతలము $ax^2 + by^2 + cz^2 = 0$ శంఖుపును స్పర్శించే నిబంధన

Options :

1. $\frac{u}{a} + \frac{v}{b} + \frac{w}{c} = 0$

2. $\frac{u}{a^2} + \frac{v}{b^2} + \frac{w}{c^2} = 0$

3. $\frac{u^2}{a} + \frac{v^2}{b} + \frac{w^2}{c} = 0$

4. $\frac{a}{u^2} + \frac{b}{v^2} + \frac{c}{w^2} = 0$

Question Number : 86 Question Id : 2767703723 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The solution of the equation $x \odot 5 = 6$ a group $(z_7, \odot)$ is
 $(z_7, \odot)$ సమూహము నందు $x \odot 5 = 6$ సమీకరణ సాధన

Options :

1. 4

2. 1

3. 2

4. 3

Question Number : 87 Question Id : 2767703724 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If $a*b = a + b + ab$ is binary operation on a set $R - \{-1\}$, then the inverse of 'a' is

$R - \{-1\}$ అనే సమితిపై $a * b = a + b + ab$ అనునది యుగ్మ ప్రక్రియ అయితే 'a' యొక్క విలోమము.

Options :

1. $\frac{a}{1+a}$

2. $\frac{1+a}{a}$

3. $\frac{-a}{1+a}$

4. $\frac{1-a}{a}$

Question Number : 88 Question Id : 2767703725 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If H is a subgroup of a group with degree 20, then which of the following is not possible to be the degree of H

20 తరగతిగా గల సమూహానికి H ఒక ఉపసమూహము అయితే క్రింది వాటిలో ఏది H యొక్క తరగతిగా వుండడానికి వీలుపడనిది.

Options :

1. 4

2. 5

3. 20

4. 15

Question Number : 89 Question Id : 2767703726 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If $O(a) = 25$, then $O(a^3)$ is

$O(a) = 25$ అయితే $O(a^3)$ విలువ

Options :

1. 25

2. 20

3. 10

4. 5

Question Number : 90 Question Id : 2767703727 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

$$(-32) +_5 5 =$$

Options :

1. 1

2. 3

3. 2

4. 5

Question Number : 91 Question Id : 2767703728 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

In a group, the order of an identity element is

ఒక సమూహములోని తత్సమ మూలకం యొక్క తరగతి

Options :

1. n

2. $n-1$

3. 0

4. 1

Question Number : 92 Question Id : 2767703729 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If x, y are any two elements in an abelian group with $O(x) = 7$, $O(y) = 5$, then $O(xy) = \underline{\hspace{2cm}}$

x, y లు ఒక ఎబీలియన్ సమూహములోని మూలకాలయిన

$O(x) = 7$, $O(y) = 5$ అయితే అప్పుడు $O(xy) =$

Options :

1. 35

2. 24

3. 12

4. 2

Question Number : 93 Question Id : 2767703730 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The number of generators in a cyclic group of order 7

7 తరగతిగా గల చక్రీయ సమూహములోని జనకమూలకాల సంఖ్య

Options :

1. 3

2. 4

3. 5

4. 6

Question Number : 94 Question Id : 2767703731 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If P is a prime, then $\phi(P^n) = \underline{\hspace{2cm}}$

P ప్రధానాంకము అయితే $\phi(P^n) = \underline{\hspace{2cm}}$

Options :

1. P^n

2. $P^n(1-p)$

3. $P^n \left(1 - \frac{1}{p} \right)$

4. $P^n (p-1)$

Question Number : 95 Question Id : 2767703732 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The number of generators of the group $(Z_{15}, +_{15})$ is
($Z_{15}, +_{15}$) సమూహం యొక్క జనక మూలకాల సంఖ్య

Options :

1. 8

2. 10

3. 12

4. 15

Question Number : 96 Question Id : 2767703733 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If $H = \{-1\}$, is a complex of the multiplicative group $G = \{1, -1\}$, then

$H^{-1} = \underline{\hspace{2cm}}$

గుణక సమూహము $G = \{1, -1\}$ యొక్క కాంప్లెక్స్ $H = \{-1\}$

అయినప్పుడు $H^{-1} = \underline{\hspace{2cm}}$

Options :

1. $\{1\}$

2. $\{1, -1\}$

3. $\{-1\}$

4. $\{-i\}$

If $\Phi: \mathbb{Z} \rightarrow \mathbb{Z}_7$ is a homomorphism, then $\Phi(25) = \underline{\hspace{2cm}}$

$\Phi: \mathbb{Z} \rightarrow \mathbb{Z}_7$ క సమరూపత అయిన అప్పుడు $\Phi(25) = \underline{\hspace{2cm}}$

Options :

1. 2
2. 5
3. 15
4. 25

The number of odd permutations in S_6 is

S_6 లోని బేసి ప్రస్తారాల సంఖ్య

Options :

1. 120
2. 240
3. 360
4. 480

The inverse of the permutation (2 3 4) is

(2 3 4) ప్రస్తారము యొక్క విలోమము

Options :

1. (3 2 4)
2. (4 3 2)
3. (2 4 3)

4. (2 3 4)

Question Number : 100 Question Id : 2767703737 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The cycle representation of the permutation $\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ 3 & 2 & 4 & 5 & 1 & 6 & 7 \end{pmatrix}$ is

$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ 3 & 2 & 4 & 5 & 1 & 6 & 7 \end{pmatrix}$ ప్రస్తారము యొక్క సైకిల్ వర్ణన

Options :

1. (1 2 3)

2. (4 5 6 7)

3. (1 3 5 4)

4. (1 3 4 5)

Question Number : 101 Question Id : 2767703738 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The sequence $S_n = \frac{(-1)^{n-1}}{n}$ converges to

$S_n = \frac{(-1)^{n-1}}{n}$ అను క్రమము దేనికి అభిసరణ చెందుతుంది

Options :

1. -1

2. 0

3. 1

4. n

Question Number : 102 Question Id : 2767703739 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

$$\lim_{n \rightarrow \infty} \frac{n^r}{x^n} = 0 \text{ if}$$

$$\lim_{n \rightarrow \infty} \frac{n^r}{x^n} = 0 \text{ ఎప్పుడు అవుతుంది}$$

Options :

$$1. \quad x = 1$$

2.

$$3. \quad x < 1$$

$$4. \quad x > 1$$

$$5. \quad x = 0$$

Question Number : 103 Question Id : 2767703740 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

$$f(x) = x^2 \cos \frac{1}{x} \text{ is not continuous at}$$

$$f(x) = x^2 \cos \frac{1}{x} \text{ ఎక్కడ విచ్ఛిన్నమవుతుంది}$$

Options :

$$1. \quad x = 1$$

$$2. \quad x = 0$$

$$3. \quad x = -1$$

$$4. \quad x = 2$$

Question Number : 104 Question Id : 2767703741 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

$$f(x) = \frac{1}{x} \text{ has jump discontinuity at}$$

$$f(x) = \frac{1}{x} \text{ కు ఎక్కడ లంఘన విచ్ఛిన్నతను కలిగివుంటుంది}$$

Options :

$$1. \quad x = 0$$

$$2. \quad x = 1$$

3. $x = -1$

4. $x = 2$

Question Number : 105 Question Id : 2767703742 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

$$\lim_{n \rightarrow 2^+} \frac{1x - 21}{x - 2} =$$

Options :

1. 0

2. -1

3. 1

4. 2

Question Number : 106 Question Id : 2767703743 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

$$\lim_{x \rightarrow \infty} \left(1 + \frac{1}{x} \right)^x =$$

Options :

1. 0

2. 1

3. ∞

4. e

Question Number : 107 Question Id : 2767703744 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

$f(x) = |x| + |x-1|$ is not derivable at $x = \underline{\hspace{2cm}}$

$f(x) = |x| + |x-1|$ ప్రమేయము $x = \underline{\hspace{2cm}}$ వద్ద అవకలనీయము కాదు.

Options :

1. $(0, 1)$

2. $(1, -1)$

3. $(0, -1)$

4. $(-1, \infty)$

Question Number : 108 Question Id : 2767703745 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

In Taylor's theorem, Legranges form of remainder is

టేలర్ సిద్ధాంతములోని లెగ్రాంజ్ రూపం యొక్క శిష్ట పదము

Options :

1. $\frac{x^n}{n!} f^n(\theta x)$

2. $\frac{(b-a)^n f^n(c)}{n!}$

3. $\frac{(b-a)^{n-1} f^n(c)}{(n-1)!}$

4. $\frac{(b-a)f(c)}{(n)}$

Question Number : 109 Question Id : 2767703746 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The value of C from Canchy's mean value theorem for

$$f(x) = \sqrt{x}, g(x) = \frac{1}{\sqrt{x}}, \forall x \in [1, 2] \text{ is}$$

$$[1, 2] \text{ లోని ప్రతి } x \text{ కు } f(x) = \sqrt{x}, g(x) = \frac{1}{\sqrt{x}}, \forall x \in [1, 2]$$

అయితే కోషీ మధ్యమ మూల్య సిద్ధాంతము ప్రకారము C విలువ

Options :

1. 2

2. 1

3. $\sqrt{2}$

4. 3

Question Number : 110 Question Id : 2767703747 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

$$\int_0^1 \log (1+x) dx =$$

Options :

1. $\log 2 - 1$

2. $2\log 2 - 1$

3. $2\log 2 + 1$

4. $\log 2 + 1$

Question Number : 111 Question Id : 2767703748 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

$$\int_0^2 x [x] dx =$$

Options :

1. 1

2. 3

3. $\frac{2}{3}$

4. $\frac{3}{2}$

Question Number : 112 Question Id : 2767703749 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If $a_n = \frac{\sqrt{2n}}{(2n+1)(2n+3)}$ and $b_n = \frac{1}{n^{3/2}}$, then $\lim_{n \rightarrow \infty} \frac{a_n}{b_n} =$

Options :

1. $\frac{\sqrt{2}}{4}$

2. $\frac{1}{2}$

3. $\frac{\sqrt{3}}{4}$

4. $\frac{1}{4}$

Question Number : 113 Question Id : 2767703750 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If $a_n = \frac{x^n}{n!}$, $a_0 = 1$, then $\lim_{n \rightarrow \infty} \frac{a_{n+1}}{a_n} =$

$a_n = \frac{x^n}{n!}$, $a_0 = 1$, అయిన అప్పుడు $\lim_{n \rightarrow \infty} \frac{a_{n+1}}{a_n} =$

Options :

1. n

2. 1

3. 0

4. $\frac{x}{n}$

Question Number : 114 Question Id : 2767703751 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

For $x > 0$, the series $\sum \frac{\left(1 + \frac{1}{n}\right)^{n^2}}{x^n}$ is convergent if

$x > 0$ కు శ్రేణి $\sum \frac{\left(1 + \frac{1}{n}\right)^{n^2}}{x^n}$ అభిసరణ చెందాలంటే

Options :

1. $x < e$
2. $x > e$
3. $x = e$
4. $x = a$

Question Number : 115 Question Id : 2767703752 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The series $\sum \frac{x^n}{1+x^{2n}}, x \geq 0$, diverges if

$\sum \frac{x^n}{1+x^{2n}}, x \geq 0$ శ్రేణి అపసరణము చెందాలంటే

Options :

1. $x > 1$
2. $x < 1$
3. $x = 1$
4. $x = 2$

Question Number : 116 Question Id : 2767703753 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The ring $R = \{a + b\sqrt{2} \mid a, b \in \mathbb{Q}\}$ is

వలయం $R = \{a + b\sqrt{2} \mid a, b \in \mathbb{Q}\}$ అనునది

Options :

1. Integral domain
- పూర్ణాంక ప్రదేశం

2. Skew field
స్కవ్ ఫీల్డ్

3. Field
ఫీల్డ్

4. None
ఏదీకాదు

Question Number : 117 Question Id : 2767703754 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The ideal of the ring $(\mathbb{Z}_8, +_8, \times_8)$ is
 $(\mathbb{Z}_8, +_8, \times_8)$ వలయం యొక్క ఆదర్శము ఏది

Options :

1. $(0, 3, 6)$

2. $(0, 2, 6)$

3. $(0, 5)$

4. $(0, 4)$

Question Number : 118 Question Id : 2767703755 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The characteristic of a ring with unity is
ఏకాంకము కలిగిన వలయం యొక్క లాంక్షణికము

Options :

1. 0

2. 1

3. 2

4. ∞

Question Number : 119 Question Id : 2767703756 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Associates of $a + ib$ in a Gaussian integral domain are
గౌసియన్ పూర్ణాంక ప్రదేశంలోని $a + ib$ యొక్క సహచరులు

Options :

1. 2
2. 4
3. 5
4. 6

Question Number : 120 Question Id : 2767703757 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The number of factors of $x^4 + 4$ in $Z_5[x]$ is
 $Z_5[x]$ లోని $x^4 + 4$ యొక్క భాజకాల సంఖ్య

Options :

1. 0
2. 3
3. 2
4. 4

Question Number : 121 Question Id : 2767703758 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If $f(x) = 2 + 5x + 3x^2$, $g(x) = 2x^3 + 4x + 1$ are defined over the ring
($Z_6, +_6, \times_6$), then degree ($f(x) + g(x)$) is
($Z_6, +_6, \times_6$) వలయంపై $f(x) = 2 + 5x + 3x^2$, $g(x) = 2x^3 + 4x + 1$
లు నిర్వచించబడిన అప్పుడు డిగ్రీ ($f(x) + g(x)$) విలువ

Options :

1. 2
2. 3
3. 4

4. 0

Question Number : 122 Question Id : 2767703759 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

$Z_6 = \{0,1,2,3,4,5\}$ is a ring of integers modulo 6 and $U = \{0, 3\}$ is an ideal of Z_6 , then coset $2 + U = \underline{\hspace{2cm}}$

$Z_6 = \{0, 1, 2, 3, 4, 5\}$ అనేది 6 - మాపక వలయము మరియు $U = \{0, 3\}$ ఒక ఆదర్శం అయితే సహసమితి $2 + U = \underline{\hspace{2cm}}$

Options :

1. $\{2, 5\}$

2. $\{0, 3\}$

3. $\{0, 2, 3, 5\}$

4. $\{0, 1, 2, 3, 4\}$

Question Number : 123 Question Id : 2767703760 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If R is a non-zero ring and $a^2 = a, \forall a \in R$, then the characteristic of R is

R ఒక శూన్యేతర వలయం మరియు $a^2 = a, \forall a \in R$ అయితే R యొక్క లాంక్షణికము

Options :

1. 0

2. 1

3. 2

4. 3

Question Number : 124 Question Id : 2767703761 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If $F = (\{0, 1, 2, \dots, 10\}, +_{11}, \times_{11})$ and $f(x) = x^2 + x + 4$ is a polynomial over F , then $f(6) = \underline{\hspace{2cm}}$

$F = (\{0, 1, 2, \dots, 10\}, +_{11}, \times_{11})$ మరియు $f(x) = x^2 + x + 4$

అనేది F మీద ఒక బహుపది, అప్పుడు $f(6) = \underline{\hspace{2cm}}$

Options :

1. 2

2. 3

3. 1

4. 0

Question Number : 125 Question Id : 2767703762 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If P is a characteristic of a ring R , then for all $a \in R$, $Pa = \underline{\hspace{2cm}}$

పలయం R కు P ఒక లాంక్షణికము అయితే ప్రతి $a \in R$ కు $Pa = \underline{\hspace{2cm}}$

Options :

1. a

2. 0

3. a^2

4. None
ఏదీకాదు

Question Number : 126 Question Id : 2767703763 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The divergence of the vector function $f(x, y, z) = x^2z\bar{i} - 2y^3z^2\bar{j} + xy^2z\bar{k}$ at the point $(1, -1, 1)$ is

సదిశాప్రమేయము $f(x, y, z) = x^2z\bar{i} - 2y^3z^2\bar{j} + xy^2z\bar{k}$ యొక్క

అపసరణము $(1, -1, 1)$ బిందువు వద్ద

Options :

1. -3

2. 1

3. 2

4. 0

Question Number : 127 Question Id : 2767703764 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If $\vec{f} = \text{grad} (x^3 + y^3 + z^3 - 3xyz)$, then $\text{curl } \vec{f} =$

$\vec{f} = \text{grad} (x^3 + y^3 + z^3 - 3xyz)$ అయిన అప్పుడు $\text{curl } \vec{f} =$

Options :

1. 2

2. 3

3. 0

4. -1

Question Number : 128 Question Id : 2767703765 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If $\vec{A} = t^2\vec{i} - t\vec{j} + (2t+1)\vec{k}$, $\vec{B} = (2t-3)\vec{i} + \vec{j} - t\vec{k}$, the $\frac{d}{dt}(\vec{A} \times \vec{B}) = \underline{\hspace{2cm}}$

$\vec{A} = t^2\vec{i} - t\vec{j} + (2t+1)\vec{k}$, $\vec{B} = (2t-3)\vec{i} + \vec{j} - t\vec{k}$ అయిన అప్పుడు

$\frac{d}{dt}(\vec{A} \times \vec{B}) = \underline{\hspace{2cm}}$

Options :

1. $-\vec{i} + 6\vec{j} + 2\vec{k}$

2. $\vec{i} + 6\vec{j} - \vec{k}$

$$3. \quad \bar{i} + 4\bar{j} + 2\bar{k}$$

$$4. \quad \bar{i} + 6\bar{j} + 2\bar{k}$$

Question Number : 129 Question Id : 2767703766 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

The unit normal to the surface $xy^2 + 2xz = 4$ at $(2, -2, 3)$
(2, -2, 3) వద్ద $xy^2 + 2xz = 4$ ఉపరితలంకు యూనిట్ లంబము

Options :

$$1. \quad \frac{1}{3} (\bar{i} + \bar{j} + 2\bar{k})$$

$$2. \quad \frac{1}{3} (-\bar{i} + 2\bar{j} + 2\bar{k})$$

$$3. \quad -\bar{i} + 2\bar{j} + 2\bar{k}$$

$$4. \quad (\bar{i} + \bar{j} + \bar{k})$$

Question Number : 130 Question Id : 2767703767 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If $u = x^2 + y^2 + z^2$ and $\bar{V} = x\bar{i} + y\bar{j} + z\bar{k}$ then $\text{div} (u\bar{V}) =$
 $u = x^2 + y^2 + z^2$ మరియు $\bar{V} = x\bar{i} + y\bar{j} + z\bar{k}$ అయినప్పుడు $\text{div} (u\bar{V}) =$

Options :

$$1. \quad 3u$$

$$2. \quad 4u$$

$$3. \quad 5u$$

$$4. \quad 5$$

Question Number : 131 Question Id : 2767703768 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

$$\oint (\vec{f} \cdot \nabla \vec{f}). dr =$$

Options :

1. r
2. 0
3. ∇
4. $\vec{f}$

Question Number : 132 Question Id : 2767703769 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If $\vec{r} = x\vec{i} + y\vec{j} + 3z\vec{k}$ and $(r^n \vec{r})$ is solenoidal then n=

$\vec{r} = x\vec{i} + y\vec{j} + 3z\vec{k}$ మరియు $(r^n \vec{r})$ అనునది సోలినాయిడల్ అయితే n=

Options :

1. 3
2. -3
3. -1
4. 1

Question Number : 133 Question Id : 2767703770 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If S is any closed surface enclosing a volume V and

$$\vec{F} = x\vec{i} + 2y\vec{j} + 3z\vec{k} \text{ then } \iiint_S \text{curl } \vec{F} \cdot \vec{n} \, ds =$$

V ఘన పరిమాణము కలిగియున్న సంవృత ఉపరితలము S మరియు

$$\vec{F} = x\vec{i} + 2y\vec{j} + 3z\vec{k} \text{ అయితే } \iiint_S \text{curl } \vec{F} \cdot \vec{n} \, ds =$$

Options :

1. $3V$

2. 6V

3. V

4. 4V

Question Number : 134 Question Id : 2767703771 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Dimension of the vector space of polynomials of degree $\leq n$ over a field F is

క్షేత్రము F పై బహుపదుల పరిమాణము $\leq n$ అగు సదిశాంతరాళము పరిమాణము

Options :

1. n

2. n-1

3. n+1

4. n+2

Question Number : 135 Question Id : 2767703772 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If $T : \mathbb{R}^3 \rightarrow \mathbb{R}^3$ is invertible operator defined by $T(x, y, z) = (2x, 4x - y, 2x + 3y - z)$, then $T^{-1} =$

$T : \mathbb{R}^3 \rightarrow \mathbb{R}^3$ విలోమ పరివర్తనముయి $T(x, y, z) = (2x, 4x - y, 2x + 3y - z)$ గా నిర్వచిస్తే $T^{-1} =$

Options :

1. $\left(\frac{a}{2}, 2a - b, 7a - 3b - c \right)$

2. $\left(\frac{a}{2}, 2a + b, 7a + 3b - c \right)$

3. $(a, 2a + b, a + b + c)$

3.

4. $\left(\frac{a}{2}, 2a + b, a - b - c\right)$

4.

Question Number : 136 Question Id : 2767703773 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If $T : \mathbb{R}^2 \rightarrow \mathbb{R}^2$ is the linear transformation given by $T(1, 2) = (3, 0)$

and $T(2, 1) = (1, 2)$ then $T(1, 1) = \underline{\hspace{2cm}}$

$T : \mathbb{R}^2 \rightarrow \mathbb{R}^2$ ఒక ఋజు పరివర్తనమయి $T(1, 2) = (3, 0)$ మరియు $T(2, 1)$

$= (1, 2)$ గా యిచ్చిన $T(1, 1) = \underline{\hspace{2cm}}$

Options :

1. $(1, 2)$

1.

2. $\left(\frac{4}{3}, \frac{2}{3}\right)$

2.

3. $(4, 3)$

3.

4. $\left(\frac{1}{2}, \frac{2}{3}\right)$

4.

Question Number : 137 Question Id : 2767703774 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Let $T : V_3(\mathbb{R}) \rightarrow V_3(\mathbb{R})$ defined by $T(a, b, c) = (3a, a - b, 2a + b + c)$, then

$(T^2 - I)(T - 3I) = \underline{\hspace{2cm}}$

$T : V_3(\mathbb{R}) \rightarrow V_3(\mathbb{R})$ ను $T(a, b, c) = (3a, a - b, 2a + b + c)$

గా నిర్వచించిన $(T^2 - I)(T - 3I) = \underline{\hspace{2cm}}$

Options :

1. 3

1.

2. 2

2.

3. 1

4. 0

Question Number : 138 Question Id : 2767703775 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If K is the eigen value of a matrix A, then the eigen value of A^{-1} is

A మాత్రిక లాక్షణిక మూలము K అయిన A^{-1} నకు లాక్షణిక మూలము

Options :

1. K

2. $\frac{1}{K}$

3. -K

4. K^2

Question Number : 139 Question Id : 2767703776 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Let $V(F)$ be a vector space and W be the subspace of V . If $\dim$

$(V(F)) = 20$ and $\dim(W) = 5$, then $\dim\left(\frac{V}{W}\right) =$

$V(F)$ సది శాంతరాళానికి W ఒక ఉపాంతరాళము $\dim(V(F)) = 20$

మరియు $\dim(W) = 5$ అయినప్పుడు $\dim\left(\frac{V}{W}\right) =$

Options :

1. 4

2. 5

3. 12

4. 15

Question Number : 140 Question Id : 2767703777 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If V is a finite dimensional vector space with n dimension and $T :$

$V \rightarrow V$ is a linear transformation, then $\text{Rank}(T) + \text{Nullity}(T) = \underline{\hspace{2cm}}$

V ఒక n పరిమితి పరిమాణము గల సదిశాంతరాళము అయిన

మరియు $T : V \rightarrow V$ ఒక ఋజు పరివర్తన అయినప్పుడు

$\text{Rank}(T) + \text{Nullity}(T) = \underline{\hspace{2cm}}$

Options :

1. $2n$
2. n
3. $n-1$
4. $2n$

Question Number : 141 Question Id : 2767703778 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Let $B = \{(1, 0) (0, 1)\}$ and $B^1 = \{(1, 3) (2, 5)\}$ be the bases of R^2 . Then the transition matrix from B to B^1 is

$B = \{(1, 0) (0, 1)\}$ మరియు $B^1 = \{(1, 3) (2, 5)\}$

లు R^2 యొక్క ఆధారాలు అయినప్పుడు B నుండి B^1 కు సంక్రమ మాత్రిక

Options :

1. $\begin{pmatrix} 1 & 2 \\ 3 & 5 \end{pmatrix}$
2. $\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$
3. $\begin{pmatrix} 1 & 2 \\ 5 & 3 \end{pmatrix}$
4. $\begin{pmatrix} 2 & 1 \\ 3 & 5 \end{pmatrix}$

Question Number : 142 Question Id : 2767703779 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If α, β are in real inner product space R and $\|\alpha\|=\|\beta\|$, then $((\alpha-\beta), (\alpha+\beta))=$ ____

వాస్తవ అంతర్లబ్ధ అంతరాళము R లో α ,

β లు వుండి మరియు $\|\alpha\|=\|\beta\|$ అయినప్పుడు $((\alpha-\beta), (\alpha+\beta))=$ ____

Options :

1. α
2. β
3. 0
4. $\alpha+\beta$

Question Number : 143 Question Id : 2767703780 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Let $V_3(R)$ is an inner product space and $\alpha = (-1, 0, 1), \beta = (2, 0, -2)$ are in $V_3(R)$, then $(\alpha+\beta) =$ ____

$V_3(R)$ ఒక అంతర్లబ్ధ అంతరాళము మరియు $\alpha = (-1, 0, 1), \beta = (2, 0, -2)$ లు $V_3(R)$ లో వుంటే $(\alpha+\beta) =$ ____

Options :

1. $(1, 0, -1)$
2. $(1, 0, 2)$
3. $(1, 0, -2)$
4. $(1, 0, 1)$

Question Number : 144 Question Id : 2767703781 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If α and β are orthogonal unit vectors in $V(R)$ the distance between them is

α మరియు β లు $V(R)$ లోని లంబకోణీయ యూనిట్ సదిశలయినప్పుడు వాటి మధ్య దూరము

Options :

1. $\sqrt{2}$

2. 1

3. 2

4. 0

Question Number : 145 Question Id : 2767703782 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If A and B are the non-zero column and row matrices respectively,
then rank (AB) =

A మరియు B లు వరుసగా శూన్యేతర దొంతి మరియు పంక్తి
మాత్రికలయిన అప్పుడు (AB) కోటి =

Options :

1. 1

2. 2

3. 0

4. -1

Question Number : 146 Question Id : 2767703783 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If T is a linear operator on R^2 defined by $T(x, y) = (x-y, y)$, then $T^2(x, y) = \underline{\hspace{2cm}}$

R^2 లో T ఒక ఋజు పరికర్తను $T(x, y) = (x-y, y)$ గా నిర్వచించబడిన
అప్పుడు $T^2(x, y) = \underline{\hspace{2cm}}$

Options :

1. $(x, 2y-x)$

2. $(x-2y, y)$

3. $(2x, x-2y)$

4. $(x+2y, y)$

Question Number : 147 Question Id : 2767703784 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If A is a linear operator on R^2 defined by $T(x,y) = (4x-2y, 2x+y)$,
then the matrix of T relative to the standard basis is

R^2 లో T ఋజు పరికర్తను $T(x, y) = (4x - 2y, 2x + y)$ గా నిర్వచించిన T

యొక్క మాత్రిక ప్రామాణిక ఆధారము పరంగా

Options :

1. $\begin{bmatrix} 2 & -4 \\ 2 & 1 \end{bmatrix}$

2. $\begin{bmatrix} 4 & -2 \\ 1 & 2 \end{bmatrix}$

3. $\begin{bmatrix} 2 & 3 \\ 2 & -1 \end{bmatrix}$

4. $\begin{bmatrix} 4 & -2 \\ 2 & 1 \end{bmatrix}$

Question Number : 148 Question Id : 2767703785 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

If $A = \begin{bmatrix} 1 & 2 & 2 \\ 2 & 1 & 2 \\ 2 & 2 & 1 \end{bmatrix}$, then $A^2 - 4A = \underline{\hspace{2cm}}$

$A = \begin{bmatrix} 1 & 2 & 2 \\ 2 & 1 & 2 \\ 2 & 2 & 1 \end{bmatrix}$ అయినప్పుడు $A^2 - 4A = \underline{\hspace{2cm}}$

Options :

1. $3I$

2. $5I$

3. 0

4. I

Question Number : 149 Question Id : 2767703786 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

For $A = \begin{bmatrix} 5 & 2 & 1 \\ -2 & 1 & -1 \\ 2 & 2 & 4 \end{bmatrix}$, $X = \begin{bmatrix} 1 \\ -1 \\ 1 \end{bmatrix}$ if $Ax = Kx$, then $K = \underline{\hspace{2cm}}$

$A = \begin{bmatrix} 5 & 2 & 1 \\ -2 & 1 & -1 \\ 2 & 2 & 4 \end{bmatrix}$, $X = \begin{bmatrix} 1 \\ -1 \\ 1 \end{bmatrix}$ అకు $Ax = Kx$ అయినప్పుడు $K = \underline{\hspace{2cm}}$

Options :

1. 2

2. 3

3. 4

4. 5

Question Number : 150 Question Id : 2767703787 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Rank of $\begin{bmatrix} -1 & -2 & -3 \\ 3 & 4 & 5 \\ 4 & 5 & 6 \end{bmatrix}$ is

$\begin{bmatrix} -1 & -2 & -3 \\ 3 & 4 & 5 \\ 4 & 5 & 6 \end{bmatrix}$ యొక్క ర్యాంక్

Options :

1. 2

2. 3

3. 1

