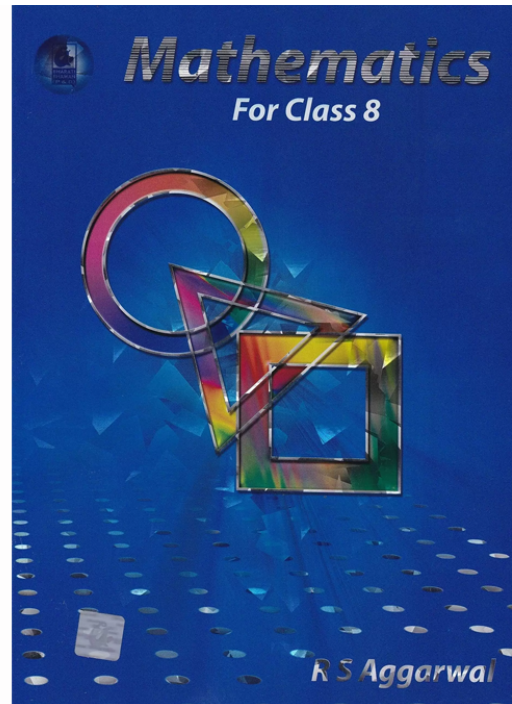


RS Aggarwal Solutions for Class 8

Maths Chapter 7–Factorisation

Class 8 - Chapter 7 Factorisation



For any clarifications or questions you can write to info@indcareer.com

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RS Aggarwal Solutions for Class 8 Maths Chapter 7–Factorisation

Class 8: Maths Chapter 7 solutions. Complete Class 8 Maths Chapter 7 Notes.

RS Aggarwal Solutions for Class 8 Maths Chapter 7–Factorisation

RS Aggarwal 8th Maths Chapter 7, Class 8 Maths Chapter 7 solutions

Ex 7A

Q1

Answer :

(i) $12x + 15 = 3(4x + 5)$

(ii) $14m - 21 = 7(2m - 3)$

(iii) $9n - 12n^2 = 3n(3 - 4n)$

Q2

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

(i) H.C.F. of $16a^2$ and $24ab$ is $8a$.

$$\therefore 16a^2 - 24ab = 8a(2a - 3b)$$

(ii) H.C.F. of $15ab^2$ and $20a^2b$ is $5ab$.

$$\therefore 15ab^2 - 20a^2b = 5ab(3b - 4a)$$

(iii) H.C.F. of $12x^2y^3$ and $21x^3y^2$ is $3x^2y^2$.

$$\therefore 12x^2y^3 - 21x^3y^2 = 3x^2y^2(4y - 7x)$$

Q3

Answer :

(i) H.C.F. of $24x^3$ and $36x^2y$ is $6x^2$.

$$\therefore 24x^3 - 36x^2y = 6x^2(4x - 6y)$$

(ii) H.C.F. of $10x^3$ and $15x^2$ is $5x^2$.

$$\therefore 10x^3 - 15x^2 = 5x^2(2x - 3)$$

(iii) H.C.F. of $36x^3y$ and $60x^2y^3z$ is $12x^2y$.

$$\therefore 36x^3y - 60x^2y^3z = 12x^2y(3x - 5y^2z)$$

Q4

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

(i) H.C.F. of $9x^3$, $6x^2$ and $12x$ is $3x$.

$$\therefore 9x^3 - 6x^2 + 12x = 3x(3x^2 - 2x + 4)$$

(ii) H.C.F. of $8x^3$, $72xy$ and $12x$ is $4x$.

$$\therefore 8x^3 - 72xy + 12x = 4x(2x^2 - 18y + 3)$$

(iii) H.C.F. of $18a^3b^3$, $27a^2b^3$ and $36a^3b^2$ is $9a^2b^2$.

$$\therefore 18a^3b^3 - 27a^2b^3 + 36a^3b^2 = 9a^2b^2(2ab - 3b + 4a)$$

Q5

Answer :

(i) H.C.F. of $14x^3$, $21x^4y$ and $28x^2y^2$ is $7x^2$.

$$\therefore 14x^3 + 21x^4y - 28x^2y^2 = 7x^2(2x + 3x^2y - 4y^2)$$

(ii) H.C.F. of -5 , $-10t$ and $20t^2$ is 5 .

$$\therefore -5 - 10t + 20t^2 = 5(-1 - 2t + 4t^2)$$

<https://www.youtube.com/embed/ZQ-NRsWhOGI?feature=oembed>

Q6

Answer :

$$(i) x(x + 3) + 5(x + 3) = (x + 3)(x + 5)$$

$$(ii) 5x(x - 4) - 7(x - 4) = (x - 4)(5x - 7)$$

$$(iii) 2m(1 - n) + 3(1 - n) = (1 - n)(2m + 3)$$

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Q7

Answer :

We have:

$$6a(a - 2b) + 5b(a - 2b) = (a - 2b)(6a + 5b)$$

Q8

Answer :

We have:

$$x^3(2a - b) + x^2(2a - b) = (2a - b)(x^3 + x^2) = x^2(x + 1)(2a - b)$$

Q9

Answer :

We have:

$$9a(3a - 5b) - 12a^2(3a - 5b) = (3a - 5b)(9a - 12a^2) = 3a(3a - 5b)(3 - 4a)$$

Q10

Answer :

We have:

$$\begin{aligned}(x + 5)^2 - 4(x + 5) &= (x + 5)\{(x + 5) - 4\} \\ &= (x + 5)(x + 5 - 4) \\ &= (x + 5)(x + 1)\end{aligned}$$

$$\therefore (x + 5)^2 - 4(x + 5) = (x + 5)(x + 1)$$

Q11

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

$$\begin{aligned}3(a - 2b)^2 - 5(a - 2b) &= (a - 2b)\{3(a - 2b) - 5\} \\ &= (a - 2b)(3a - 6b - 5)\end{aligned}$$

$$\therefore 3(a - 2b)^2 - 5(a - 2b) = (a - 2b)(3a - 6b - 5)$$

Q12

Answer :

We have:

$$\begin{aligned}2a + 6b - 3(a + 3b)^2 &= 2(a + 3b) - 3(a + 3b)^2 \\ &= (a + 3b)\{2 - 3(a + 3b)\} \\ &= (a + 3b)(2 - 3a - 9b)\end{aligned}$$

$$\therefore 2a + 6b - 3(a + 3b)^2 = (a + 3b)(2 - 3a - 9b)$$

Q13

Answer :

We have:

$$\begin{aligned}16(2p - 3q)^2 - 4(2p - 3q) &= (2p - 3q)\{16(2p - 3q) - 4\} \\ &= (2p - 3q)(32p - 48q - 4)\end{aligned}$$

$$\therefore 16(2p - 3q)^2 - 4(2p - 3q) = (2p - 3q)(32p - 48q - 4)$$

Q14

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

We have:

$$\begin{aligned}x(a-3) + y(3-a) &= x(a-3) - y(a-3) \\ &= (a-3)(x-y)\end{aligned}$$

$$\therefore x(a-3) + y(3-a) = (a-3)(x-y)$$

Q15

Answer :

We have:

$$\begin{aligned}12(2x-3y)^2 - 16(3y-2x) &= 12(2x-3y)^2 + 16(2x-3y) \\ &= (2x-3y)\{12(2x-3y) + 16\} \\ &= (2x-3y)(24x-36y+16)\end{aligned}$$

$$\therefore 12(2x-3y)^2 - 16(3y-2x) = (2x-3y)(24x-36y+16)$$

Q16

Answer :

We have:

$$\begin{aligned}(x+y)(2x+5) - (x+y)(x+3) &= (x+y)\{(2x+5) - (x+3)\} \\ &= (x+y)(2x+5-x-3) \\ &= (x+y)(x+2)\end{aligned}$$

Q17

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

By grouping the terms:

$$\begin{aligned}ar + br + at + bt &= (ar + br) + (at + bt) \\&= r(a + b) + t(a + b) \\&= (a + b)(r + t)\end{aligned}$$

$$\therefore ar + br + at + bt = (a + b)(r + t)$$

Q18

Answer :

By suitably arranging the terms:

$$\begin{aligned}x^2 - ax - bx + ab &= x^2 - bx - ax + ab \\&= (x^2 - bx) - (ax - ab) \\&= x(x - b) - a(x - b) \\&= (x - b)(x - a)\end{aligned}$$

$$\therefore x^2 - ax - bx + ab = (x - b)(x - a)$$

Q19

Answer :

By suitably arranging the terms:

$$\begin{aligned}ab^2 - bc^2 - ab + c^2 &= ab^2 - ab - bc^2 + c^2 \\&= (ab^2 - ab) - (bc^2 - c^2) \\&= ab(b - 1) - c^2(b - 1) \\&= (b - 1)(ab - c^2)\end{aligned}$$

$$\therefore ab^2 - bc^2 - ab + c^2 = (b - 1)(ab - c^2)$$

Q20

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

By suitably arranging the terms:

$$\begin{aligned}x^2 - xz + xy - yz &= x^2 + xy - xz - yz \\&= (x^2 + xy) - (xz + yz) \\&= x(x + y) - z(x + y) \\&= (x + y)(x - z)\end{aligned}$$

$$\therefore x^2 - xz + xy - yz = (x + y)(x - z)$$

Q21

Answer :

By suitably arranging the terms:

$$\begin{aligned}6ab - b^2 + 12ac - 2bc &= 6ab + 12ac - b^2 - 2bc \\&= (6ab + 12ac) - (b^2 + 2bc) \\&= 6a(b + 2c) - b(b + 2c) \\&= (b + 2c)(6a - b)\end{aligned}$$

$$\therefore 6ab - b^2 + 12ac - 2bc = (b + 2c)(6a - b)$$

Q22

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

We have:

$$\begin{aligned}(x - 2y)^2 + 4x - 8y &= (x - 2y)^2 + 4(x - 2y) \\&= (x - 2y)(x - 2y) + 4(x - 2y) \\&= (x - 2y)\{(x - 2y) + 4\} \\&= (x - 2y)(x - 2y + 4)\end{aligned}$$

$$\therefore (x - 2y)^2 + 4x - 8y = (x - 2y)(x - 2y + 4)$$

Q23

Answer :

We have:

$$\begin{aligned}y^2 - xy(1 - x) - x^3 &= y^2 - xy + x^2y - x^3 \\&= (y^2 - xy) + (x^2y - x^3) \\&= y(y - x) + x^2(y - x) \\&= (y - x)(y + x^2)\end{aligned}$$

$$\therefore y^2 - xy(1 - x) - x^3 = (y - x)(y + x^2)$$

Q24

Answer :

We have:

$$\begin{aligned}(ax + by)^2 + (bx - ay)^2 &= (a^2x^2 + b^2y^2 + 2axy) + (b^2x^2 + a^2y^2 - 2bay) \\&= a^2x^2 + a^2y^2 + b^2y^2 + b^2x^2 + 2axy - 2bay \\&= a^2(x^2 + y^2) + b^2x^2 + b^2y^2 + 2axy - 2axy \\&= a^2(x^2 + y^2) + b^2(x^2 + y^2) \\&= (x^2 + y^2)(a^2 + b^2)\end{aligned}$$

$$\therefore (ax + by)^2 + (bx - ay)^2 = (x^2 + y^2)(a^2 + b^2)$$

Q25

Answer :

We have:

$$\begin{aligned}ab^2 + (a - 1)b - 1 &= ab^2 + ba - b - 1 \\&= (ab^2 + ba) - (b + 1) \\&= ab(b + 1) - 1(b + 1) \\&= (b + 1)(ab - 1)\end{aligned}$$

$$\therefore ab^2 + (a - 1)b - 1 = (b + 1)(ab - 1)$$

Q26

Answer :

We have:

$$\begin{aligned}x^3 - 3x^2 + x - 3 &= (x^3 - 3x^2) + (x - 3) \\&= x^2(x - 3) + 1(x - 3) \\&= (x - 3)(x^2 + 1)\end{aligned}$$

$$\therefore x^3 - 3x^2 + x - 3 = (x - 3)(x^2 + 1)$$

Q27

Answer :

We have:

$$\begin{aligned}ab(x^2 + y^2) - xy(a^2 + b^2) &= abx^2 + aby^2 - a^2xy - b^2xy \\&= abx^2 - a^2xy + aby^2 - b^2xy \\&= ax(bx - ay) + by(ay - bx) \\&= ax(bx - ay) - by(bx - ay) \\&= (bx - ay)(ax - by)\end{aligned}$$

$$\therefore ab(x^2 + y^2) - xy(a^2 + b^2) = (bx - ay)(ax - by)$$

Q28

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

We have:

$$\begin{aligned}x^2 - x(a + 2b) + 2ab &= x^2 - ax - 2bx + 2ab \\&= x^2 - 2bx - ax + 2ab \\&= (x^2 - 2bx) - (ax - 2ab) \\&= x(x - 2b) - a(x - 2b) \\&= (x - 2b)(x - a)\end{aligned}$$

$$\therefore x^2 - x(a + 2b) + 2ab = (x - 2b)(x - a)$$

Ex 7B

Q1

Q2

Answer :

We have:

$$\begin{aligned}4a^2 - 9 &= (2a)^2 - (3)^2 \\&= (2a + 3)(2a - 3)\end{aligned}$$

$$\therefore 4a^2 - 9 = (2a + 3)(2a - 3)$$

Q3

Answer :

We have:

$$\begin{aligned}81 - 49x^2 &= (9)^2 - (7x)^2 \\&= (9 + 7x)(9 - 7x)\end{aligned}$$

$$\therefore 81 - 49x^2 = (9 + 7x)(9 - 7x)$$

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Q4

Answer :

We have:

$$\begin{aligned}4x^2 - 9y^2 &= (2x)^2 - (3y)^2 \\ &= (2x + 3y)(2x - 3y)\end{aligned}$$

$$\therefore 4x^2 - 9y^2 = (2x + 3y)(2x - 3y)$$

<https://www.youtube.com/embed/ZQ-NRsWhOGI?feature=oembedQ5Q6Q7Q8Q9Q10Q11Q12Q13Q14Q15Q16Q17Q18Q19Q20Q21Q22Q23Q24Q25Q26Q27Q28>

Ex 7C

Q1

Answer :

We have:

$$\begin{aligned}x^2 + 8x + 16 &= x^2 + 2 \times x \times 4 + (4)^2 \\ &= (x + 4)^2\end{aligned}$$

$$\therefore x^2 + 8x + 16 = (x + 4)^2$$

Q2

Answer :

We have:

$$\begin{aligned}x^2 + 14x + 49 &= x^2 + 2 \times x \times 7 + (7)^2 \\ &= (x + 7)^2\end{aligned}$$

$$\therefore x^2 + 14x + 49 = (x + 7)^2$$

Q3

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

We have:

$$\begin{aligned}1 + 2x + x^2 &= x^2 + 2x + 1 \\&= x^2 + 2 \times x \times 1 + (1)^2 \\&= (x + 1)^2\end{aligned}$$

$$\therefore 1 + 2x + x^2 = (x + 1)^2$$

Q4

Answer :

We have;

$$\begin{aligned}9 + 6z + z^2 &= z^2 + 6z + 9 \\&= z^2 + 2 \times z \times 3 + (3)^2 \\&= (z + 3)^2\end{aligned}$$

$$\therefore 9 + 6z + z^2 = (z + 3)^2$$

Q5

Answer :

We have:

$$\begin{aligned}x^2 + 6ax + 9a^2 &= x^2 + 2 \times x \times 3a + (3a)^2 \\&= (x + 3a)^2\end{aligned}$$

$$\therefore x^2 + 6ax + 9a^2 = (x + 3a)^2$$

Q6

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

We have:

$$\begin{aligned}4y^2 + 20y + 25 &= (2y)^2 + 2 \times 2y \times 5 + (5)^2 \\&= (2y + 5)^2\end{aligned}$$

$$\therefore 4y^2 + 20y + 25 = (2y + 5)^2$$

Q7

Answer :

We have:

$$\begin{aligned}36a^2 + 36a + 9 &= (6a)^2 + 2 \times 6a \times 3 + (3)^2 \\&= (6a + 3)^2\end{aligned}$$

$$\therefore 36a^2 + 36a + 9 = (6a + 3)^2$$

Q8

Answer :

We have:

$$\begin{aligned}9m^2 + 24m + 16 &= (3m)^2 + 2 \times 3m \times 4 + (4)^2 \\&= (3m + 4)^2\end{aligned}$$

$$\therefore 9m^2 + 24m + 16 = (3m + 4)^2$$

Q9

Answer :

We have:

$$\begin{aligned} z^2 + z + \frac{1}{4} &= z^2 + 2 \times z \times \frac{1}{2} \times \left(\frac{1}{2}\right)^2 \\ &= \left(z + \frac{1}{2}\right)^2 \end{aligned}$$

$$\therefore z^2 + z + \frac{1}{4} = \left(z + \frac{1}{2}\right)^2$$

Q10

Answer :

We have:

$$\begin{aligned} 49a^2 + 84ab + 36b^2 &= (7a)^2 + 2 \times 7a \times 6b + (6b)^2 \\ &= (7a + 6b)^2 \end{aligned}$$

$$\therefore 49a^2 + 84ab + 36b^2 = (7a + 6b)^2$$

Q11

Answer :

We have:

$$\begin{aligned} p^2 - 10p + 25 &= p^2 - 2 \times p \times 5 + (5)^2 \\ &= (p - 5)^2 \end{aligned}$$

$$\therefore p^2 - 10p + 25 = (p - 5)^2$$

Q12

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

We have:

$$\begin{aligned}121a^2 - 88ab + 16b^2 &= (11a)^2 - 2 \times 11a \times 4b + (4b)^2 \\&= (11a - 4b)^2\end{aligned}$$

$$\therefore 121a^2 - 88ab + 16b^2 = (11a - 4b)^2$$

Q13

Answer :

We have:

$$\begin{aligned}1 - 6x + 9x^2 &= 9x^2 - 6x + 1 \\&= (3x)^2 - 2 \times 3x \times 1 + (1)^2 \\&= (3x - 1)^2\end{aligned}$$

$$\therefore 1 - 6x + 9x^2 = (3x - 1)^2$$

Q14

Answer :

We have:

$$\begin{aligned}9y^2 - 12y + 4 &= (3y)^2 - 2 \times 3y \times 2 + (2)^2 \\&= (3y - 2)^2\end{aligned}$$

$$\therefore 9y^2 - 12y + 4 = (3y - 2)^2$$

Q15

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

We have:

$$\begin{aligned}16x^2 - 24x + 9 &= (4x)^2 - 2 \times 4x \times 3 + (3)^2 \\ &= (4x - 3)^2\end{aligned}$$

$$\therefore 16x^2 - 24x + 9 = (4x - 3)^2$$

Q16

Answer :

We have:

$$\begin{aligned}m^2 - 4mn + 4n^2 &= m^2 - 2 \times m \times 2n + (2n)^2 \\ &= (m - 2n)^2\end{aligned}$$

$$\therefore m^2 - 4mn + 4n^2 = (m - 2n)^2$$

Q17

Answer :

We have:

$$\begin{aligned}a^2b^2 - 6abc + 9c^2 &= (ab)^2 - 2 \times ab \times 3c + (3c)^2 \\ &= (ab - 3c)^2\end{aligned}$$

Q18

Answer :

We have:

$$\begin{aligned}m^4 + 2m^2n^2 + n^4 &= (m^2)^2 + 2 \times m^2 \times n^2 + (n^2)^2 \\ &= (m^2 + n^2)^2\end{aligned}$$

$$\therefore m^4 + 2m^2n^2 + n^4 = (m^2 + n^2)^2$$

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Q19

Answer :

We have:

$$\begin{aligned}(l+m)^2 - 4lm &= (l^2 + m^2 + 2lm) - 4lm \\&= l^2 + m^2 + 2lm - 4lm \\&= l^2 + m^2 - 2lm \\&= (l)^2 + (m)^2 - 2 \times l \times m \\&= (l-m)^2\end{aligned}$$

$$\therefore (l+m)^2 - 4lm = (l-m)^2$$

Ex 7D

Q1

Answer :

The given expression is $x^2 + 5x + 6$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = 5$$

$$\text{Product} = 6$$

Clearly, the numbers are 3 and 2.

$$\begin{aligned}x^2 + 5x + 6 &= x^2 + 3x + 2x + 6 \\&= x(x+3) + 2(x+3) \\&= (x+3)(x+2)\end{aligned}$$

Q2

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

The given expression is $y^2 + 10y + 24$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = 10$$

$$\text{Product} = 24$$

Clearly, the numbers are 6 and 4.

$$\begin{aligned}y^2 + 10y + 24 &= y^2 + 6y + 4y + 24 \\&= y(y + 6) + 4(y + 6) \\&= (y + 6)(y + 4)\end{aligned}$$

Q3

Answer :

The given expression is $z^2 + 12z + 27$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = 12$$

$$\text{Product} = 27$$

Clearly, the numbers are 9 and 3.

$$\begin{aligned}z^2 + 12z + 27 &= z^2 + 9z + 3z + 27 \\&= z(z + 9) + 3(z + 9) \\&= (z + 9)(z + 3)\end{aligned}$$

Q4

Answer :

The given expression is $p^2 + 6p + 8$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = 6$$

$$\text{Product} = 8$$

Clearly, the numbers are 4 and 2.

$$\begin{aligned}p^2 + 6p + 8 &= p^2 + 4p + 2p + 8 \\&= p(p + 4) + 2(p + 4) \\&= (p + 4)(p + 2)\end{aligned}$$

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Q5

Answer :

The given expression is $x^2 + 15x + 56$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = 15$$

$$\text{Product} = 56$$

Clearly, the numbers are 8 and 7.

$$\begin{aligned}x^2 + 15x + 56 &= x^2 + 8x + 7x + 56 \\&= x(x + 8) + 7(x + 8) \\&= (x + 8)(x + 7)\end{aligned}$$

Q6

Answer :

The given expression is $y^2 + 19y + 60$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = 19$$

$$\text{Product} = 60$$

Clearly, the numbers are 15 and 4.

$$\begin{aligned}y^2 + 19y + 60 &= y^2 + 15y + 4y + 60 \\&= y(y + 15) + 4(y + 15) \\&= (y + 15)(y + 4)\end{aligned}$$

Q7

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

The given expression is $x^2 + 13x + 40$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = 13$$

$$\text{Product} = 40$$

Clearly, the numbers are 8 and 5.

$$\begin{aligned}x^2 + 13x + 40 &= x^2 + 8x + 5x + 40 \\&= x(x + 8) + 5(x + 8) \\&= (x + 8)(x + 5)\end{aligned}$$

Q8

Answer :

The given expression is $q^2 - 10q + 21$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -10$$

$$\text{Product} = 21$$

Clearly, the numbers are -7 and -3 .

$$\begin{aligned}q^2 - 10q + 21 &= q^2 - 7q - 3q + 21 \\&= q(q - 7) - 3(q - 7) \\&= (q - 7)(q - 3)\end{aligned}$$

Q9

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

The given expression is $p^2 + 6p - 16$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = 6$$

$$\text{Product} = -16$$

Clearly, the numbers are 8 and -2 .

$$\begin{aligned} p^2 + 6p - 16 &= p^2 + 8p - 2p - 16 \\ &= p(p + 8) - 2(p + 8) \\ &= (p + 8)(p - 2) \end{aligned}$$

Q10

Answer :

The given expression is $x^2 - 10x + 24$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -10$$

$$\text{Product} = 24$$

Clearly, the numbers are -6 and -4 .

$$\begin{aligned} x^2 - 10x + 24 &= x^2 - 6x - 4x + 24 \\ &= x(x - 6) - 4(x - 6) \\ &= (x - 6)(x - 4) \end{aligned}$$

Q11

Answer :

The given expression is $x^2 - 23x + 42$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -23$$

$$\text{Product} = 42$$

Clearly, the numbers are -21 and -2 .

$$\begin{aligned}x^2 - 23x + 42 &= x^2 - 21x - 2x + 42 \\&= x(x - 21) - 2(x - 21) \\&= (x - 21)(x - 2)\end{aligned}$$

Q12

Answer :

The given expression is $x^2 - 17x + 16$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -17$$

$$\text{Product} = 16$$

Clearly, the numbers are -16 and -1 .

$$\begin{aligned}x^2 - 17x + 16 &= x^2 - 16x - x + 16 \\&= x(x - 16) - 1(x - 16) \\&= (x - 16)(x - 1)\end{aligned}$$

Q13

Answer :

The given expression is $y^2 - 21y + 90$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -21$$

$$\text{Product} = 90$$

Clearly, the numbers are -15 and -6 .

$$\begin{aligned}y^2 - 21y + 90 &= y^2 - 15y - 6y + 90 \\&= y(y - 15) - 6(y - 15) \\&= (y - 15)(y - 6)\end{aligned}$$

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Q14

Answer :

The given expression is $x^2 - 22x + 117$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -22$$

$$\text{Product} = 117$$

Clearly, the numbers are -13 and -9 .

$$\begin{aligned}x^2 - 22x + 117 &= x^2 - 13x - 9x + 117 \\&= x(x - 13) - 9(x - 13) \\&= (x - 13)(x - 9)\end{aligned}$$

Q15

Answer :

The given expression is $x^2 - 9x + 20$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -9$$

$$\text{Product} = 20$$

Clearly, the numbers are -5 and -4 .

$$\begin{aligned}x^2 - 9x + 20 &= x^2 - 5x - 4x + 20 \\&= x(x - 5) - 4(x - 5) \\&= (x - 5)(x - 4)\end{aligned}$$

Q16

Answer :

The given expression is $x^2 + x - 132$.

Find two numbers that follow the conditions given below :

Sum = 1 and p

Product = -132

Clearly, the numbers are 12 and -11.

$$\begin{aligned}x^2 + x - 132 &= x^2 + 12x - 11x - 132 \\&= x(x + 12) - 11(x + 12) \\&= (x + 12)(x - 11)\end{aligned}$$

Q17

Answer :

The given expression is $x^2 + 5x - 104$.

Find two numbers that follow the conditions given below :

Sum = 5

Product = -104

Clearly, the numbers are 13 and -8.

$$\begin{aligned}x^2 + 5x - 104 &= x^2 + 13x - 8x - 104 \\&= x(x + 13) - 8(x + 13) \\&= (x + 13)(x - 8)\end{aligned}$$

Q18

Answer :

The given expression is $y^2 + 7y - 144$.

Find two numbers that follow the conditions given below :

Sum = 7

Product = -144

Clearly, the numbers are 16 and -9.

$$\begin{aligned}y^2 + 7y - 144 &= y^2 + 16y - 9y - 144 \\&= y(y + 16) - 9(y + 16) \\&= (y + 16)(y - 9)\end{aligned}$$

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Q19

Answer :

The given expression is $z^2 + 19z - 150$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = 19$$

$$\text{Product} = -150$$

Clearly, the numbers are 25 and -6 .

$$\begin{aligned} z^2 + 19z - 150 &= z^2 + 25z - 6z - 150 \\ &= z(z + 25) - 6(z + 25) \\ &= (z + 25)(z - 6) \end{aligned}$$

Q20

Answer :

The given expression is $y^2 + y - 72$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = 1$$

$$\text{Product} = -72$$

Clearly, the numbers are 9 and -8 .

$$\begin{aligned} y^2 + y - 72 &= y^2 + 9y - 8y - 72 \\ &= y(y + 9) - 8(y + 9) \\ &= (y + 9)(y - 8) \end{aligned}$$

Q21

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

The given expression is $a^2 + 6a - 91$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = 6$$

$$\text{Product} = -91$$

Clearly, the numbers are 13 and -7 .

$$\begin{aligned}a^2 + 6a - 91 &= a^2 + 13a - 7a - 91 \\&= a(a + 13) - 7(a + 13) \\&= (a + 13)(a - 7)\end{aligned}$$

Q22

Answer :

The given expression is $p^2 - 4p - 77$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -4$$

$$\text{Product} = -77$$

Clearly, the numbers are -11 and 7 .

$$\begin{aligned}p^2 - 4p - 77 &= p^2 - 11p + 7p - 77 \\&= p(p - 11) + 7(p - 11) \\&= (p - 11)(p + 7)\end{aligned}$$

Q23

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Answer :

The given expression is $x^2 - 7x - 30$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -7$$

$$\text{Product} = -30$$

Clearly, the numbers are -10 and 3 .

$$\begin{aligned}x^2 - 7x - 30 &= x^2 - 10x + 3x - 30 \\&= x(x - 10) + 3(x - 10) \\&= (x - 10)(x + 3)\end{aligned}$$

Q24

Answer :

The given expression is $x^2 - 11x - 42$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -11$$

$$\text{Product} = -42$$

Clearly, the numbers are -14 and 3 .

$$\begin{aligned}x^2 - 11x - 42 &= x^2 - 14x + 3x - 42 \\&= x(x - 14) + 3(x - 14) \\&= (x - 14)(x + 3)\end{aligned}$$

Q25

Answer :

The given expression is $x^2 - 5x - 24$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -5$$

$$\text{Product} = -24$$

Clearly, the numbers are -8 and 3 .

$$\begin{aligned}x^2 - 5x - 24 &= x^2 - 8x + 3x - 24 \\&= x(x - 8) + 3(x - 8) \\&= (x - 8)(x + 3)\end{aligned}$$

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Q26

Answer :

The given expression is $y^2 - 6y - 135$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -6$$

$$\text{Product} = -135$$

Clearly, the numbers are -15 and 9 .

$$\begin{aligned}y^2 - 6y - 135 &= y^2 - 15y + 9y - 135 \\&= y(y - 15) + 9(y - 15) \\&= (y - 15)(y + 9)\end{aligned}$$

Q27

Answer :

The given expression is $z^2 - 12z - 45$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -12$$

$$\text{Product} = -45$$

Clearly, the numbers are -15 and 3 .

$$\begin{aligned}z^2 - 12z - 45 &= z^2 - 15z + 3z - 45 \\&= z(z - 15) + 3(z - 15) \\&= (z - 15)(z + 3)\end{aligned}$$

Q28

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

The given expression is $x^2 - 4x - 12$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -4$$

$$\text{Product} = -12$$

Clearly, the numbers are -6 and 2 .

$$\begin{aligned}x^2 - 4x - 12 &= x^2 - 6x + 2x - 12 \\&= x(x - 6) + 2(x - 6) \\&= (x - 6)(x + 2)\end{aligned}$$

Q29

Answer :

The given expression is $3x^2 + 10x + 8$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = 10$$

$$\text{Product} = 3 \times 8 = 24$$

Clearly, the numbers are 6 and 4 .

$$\begin{aligned}3x^2 + 10x + 8 &= 3x^2 + 10x + 8 \\&= 3x^2 + 6x + 4x + 8 \\&= 3x(x + 2) + 4(x + 2) \\&= (x + 2)(3x + 4)\end{aligned}$$

Q30

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Answer :

The given expression is $3y^2 + 14y + 8$

Find two numbers that follow the conditions given below :

$$\text{Sum} = 14$$

$$\text{Product} = 24$$

Clearly, the numbers are 12 and 2.

$$\begin{aligned} 3y^2 + 14y + 8 &= 3y^2 + 12y + 2y + 8 \\ &= 3y(y + 4) + 2(y + 4) \\ &= (3y + 2)(y + 4) \end{aligned}$$

Q31

Answer :

The given expression is $3z^2 - 10z + 8$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -10$$

$$\text{Product} = 3 \times 8 = 24$$

Clearly, the numbers are -6 and -4 .

$$\begin{aligned} 3z^2 - 10z + 8 &= 3z^2 - 6z - 4z + 8 \\ &= 3z(z - 2) - 4(z - 2) \\ &= (3z - 4)(z - 2) \end{aligned}$$

Q32

Answer :

The given expression is $2x^2 + x - 45$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = 1$$

$$\text{Product} = -45 \times 2 = -90$$

Clearly, the numbers are 10 and -9 .

$$\begin{aligned} 2x^2 + x - 45 &= 2x^2 + 10x - 9x - 45 \\ &= 2x(x + 5) - 9(x + 5) \\ &= (2x - 9)(x + 5) \end{aligned}$$

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Q33

Answer :

The given expression is $6p^2 + 11p - 10$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = 11$$

$$\text{Product} = 6 \times -10 = -60$$

Clearly, the numbers are 15 and -4 .

$$\begin{aligned} 6p^2 + 11p - 10 &= 6p^2 + 15p - 4p - 10 \\ &= 3p(2p + 5) - 2(2p + 5) \\ &= (2p + 5)(3p - 2) \end{aligned}$$

Q34

Answer :

The given expression is $2x^2 - 17x - 30$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -17$$

$$\text{Product} = -30 \times 2 = -60$$

Clearly, the numbers are -20 and 3 .

$$\begin{aligned} 2x^2 - 17x - 30 &= 2x^2 - 20x + 3x - 30 \\ &= 2x(x - 10) + 3(x - 10) \\ &= (2x + 3)(x - 10) \end{aligned}$$

Q35

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

The given expression is $7y^2 - 19y - 6$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -19$$

$$\text{Product} = 7 \times -6 = -42$$

Clearly, the numbers are -21 and 2 .

$$\begin{aligned} 7y^2 - 19y - 6 &= 7y^2 - 21y + 2y - 6 \\ &= 7y(y - 3) + 2(y - 3) \\ &= (7y + 2)(y - 3) \end{aligned}$$

Q36

Answer :

The given expression is $28 - 31x - 5x^2$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -31$$

$$\text{Product} = 28 \times -5 = -140$$

Clearly, the numbers are -35 and 4 .

$$\begin{aligned} 28 - 31x - 5x^2 &= 28 + 4x - 35x - 5x^2 \\ &= 4(x + 7) - 5x(7 + x) \\ &= (x + 7)(4 - 5x) \end{aligned}$$

Q37

Answer :

The given expression is $3 + 23z - 8z^2$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = 23$$

$$\text{Product} = 3 \times -8 = -24$$

Clearly, the numbers are 24 and -1 .

$$\begin{aligned} 3 + 23z - 8z^2 &= 3 + 24z - z - 8z^2 \\ &= 3(1 + 8z) - z(1 + 8z) \\ &= (1 + 8z)(3 - z) \end{aligned}$$

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Q38

Answer :

The given expression is $6x^2 - 5x - 6$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -5$$

$$\text{Product} = -6 \times 6 = -36$$

Clearly, the numbers are -9 and 4 .

$$\begin{aligned} 6x^2 - 5x - 6 &= 6x^2 - 9x + 4x - 6 \\ &= 3x(2x - 3) + 2(2x - 3) \\ &= (2x - 3)(3x + 2) \end{aligned}$$

Q39

Answer :

The given expression is $3m^2 + 24m + 36$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = 24$$

$$\text{Product} = 36 \times 3 = 108$$

Clearly, the numbers are 18 and 6 .

$$\begin{aligned} 3m^2 + 24m + 36 &= 3m^2 + 18m + 6m + 36 \\ &= 3m(m + 6) + 6(m + 6) \\ &= (3m + 6)(m + 6) = 3(m + 2)(m + 6) \end{aligned}$$

Q40

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Answer :

The given expression is $4n^2 - 8n + 3$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -8$$

$$\text{Product} = 4 \times 3 = 12$$

Clearly, the numbers are -6 and -2 .

$$\begin{aligned} 4n^2 - 8n + 3 &= 4n^2 - 2n - 6n + 3 \\ &= 2n(2n - 1) - 3(2n - 1) \\ &= (2n - 1)(2n - 3) \end{aligned}$$

Q41

Answer :

The given expression is $6x^2 - 17x - 3$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -17$$

$$\text{Product} = 6 \times -3 = -18$$

Clearly, the numbers are -18 and 1 .

$$\begin{aligned} 6x^2 - 17x - 3 &= 6x^2 - 18x + x - 3 \\ &= 6x(x - 3) + 1(x - 3) \\ &= (6x + 1)(x - 3) \end{aligned}$$

Q42

Answer :

The given expression is $7x^2 - 19x - 6$.

Find two numbers that follow the conditions given below :

$$\text{Sum} = -19$$

$$\text{Product} = 7 \times -6 = -42$$

Clearly, the numbers are -21 and 2 .

$$\begin{aligned} 7x^2 - 19x - 6 &= 7x^2 - 21x + 2x - 6 \\ &= 7x(x - 3) + 2(x - 3) \\ &= (7x + 2)(x - 3) \end{aligned}$$

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Ex 7E**Q1****Answer :**

(d) $7(a - 3b)(a + 3b)$

$$\begin{aligned}\left(7a^2 - 63b^2\right) &= 7\left(a^2 - 9b^2\right) \\ &= 7(a - 3b)(a + 3b)\end{aligned}$$

Q2**Answer :**

(d) $2x(1 - 4x)(1 + 4x)$

$$\begin{aligned}(2x - 32x^3) \\ &= 2x(1 - 16x^2) \\ &= 2x(1 - 4x)(1 + 4x)\end{aligned}$$

Q3**Answer :**

(c) $x(x - 12)(x + 12)$

$$\begin{aligned}x^3 - 144x \\ &= x(x^2 - 144) \\ &= x(x - 12)(x + 12)\end{aligned}$$

Q4

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

(d) $2(1 - 5x)(1 + 5x)$

$$\begin{aligned}2 - 50x^2 \\&= 2(1 - 25x^2) \\&= 2(1 - 5x)(1 + 5x)\end{aligned}$$

Q5

Q6

Answer :

(d) $(pq - 1)(q + 1)$

$$\begin{aligned}pq^2 + q(p - 1) - 1 \\&= pq^2 + qp - q - 1 \\&= pq(q + 1) - 1(q + 1) \\&= (pq - 1)(q + 1)\end{aligned}$$

Q7

Answer :

(b) $(a - m)(b + n)$

$$\begin{aligned}ab - mn + an - bm \\&= ab + an - mn - bm \\&= a(b + n) - m(n + b) \\&= (a - m)(b + n)\end{aligned}$$

Q8

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

(a) $(a - 1)(b - 1)$

$$\begin{aligned}ab - a - b + 1 \\&= a(b - 1) - 1(b - 1) \\&= (a - 1)(b - 1)\end{aligned}$$

Q9

Answer :

(c) $(x + y)(x - z)$

$$\begin{aligned}x^2 - xz + xy - yz \\&= x(x - z) + y(x - z) \\&= (x + y)(x - z)\end{aligned}$$

Q10

Answer :

(c) $3(2m - 3)(2m + 3)$

$$\begin{aligned}12m^2 - 27 \\&= 3(4m^2 - 9) \\&= 3(2m - 3)(2m + 3)\end{aligned}$$

Q11

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Answer :

(d) $x(x + 1)(x - 1)$

$$\begin{aligned}x^3 - x &= x(x^2 - 1) \\&= x(x - 1)(x + 1)\end{aligned}$$

Q12

Answer :

(c) $(1 + a + b)(1 - a - b)$

$$\begin{aligned}1 - 2ab - (a^2 + b^2) &= 1 - 2ab - a^2 - b^2 \\&= 1 - (2ab + a^2 + b^2) \\&= 1 - (a + b)^2 \\&= (1 - a - b)(1 + a + b)\end{aligned}$$

Q13

Answer :

(c) $(x + 2)(x + 4)$

$$\begin{aligned}x^2 + 6x + 8 &= x^2 + 4x + 2x + 8 \\&= x(x + 4) + 2(x + 4) \\&= (x + 2)(x + 4)\end{aligned}$$

Q14

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-8-maths-chapter-7-factorisation/>

Answer :

(b) $(x + 7)(x - 3)$

$$\begin{aligned}x^2 + 4x - 21 &= x^2 + 7x - 3x - 21 \\&= x(x + 7) - 3(x + 7) \\&= (x - 3)(x + 7)\end{aligned}$$

Q15

Answer :

(a) $(y - 1)(y + 3)$

$$\begin{aligned}y^2 + 2y - 3 &= y^2 + 3y - y - 3 \\&= y(y + 3) - 1(y + 3) \\&= (y - 1)(y + 3)\end{aligned}$$

Q16

Answer :

(c) $(5 + x)(8 - x)$

$$\begin{aligned}40 + 3x - x^2 &= 40 + 8x - 5x - x^2 \\&= 8(5 + x) - x(5 + x) \\&= (8 - x)(x + 5)\end{aligned}$$

Q17

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Answer :

(b) $(x + 1)(2x + 3)$

$$\begin{aligned}2x^2 + 5x + 3 \\&= 2x^2 + 2x + 3x + 3 \\&= 2x(x + 1) + 3(x + 1) \\&= (2x + 3)(x + 1)\end{aligned}$$

Q18

Answer :

(c) $(3a - 2)(2a - 3)$

$$\begin{aligned}6a^2 - 13a + 6 \\&= 6a^2 - 9a - 4a + 6 \\&= 3a(2a - 3) - 2(2a - 3) \\&= (3a - 2)(2a - 3)\end{aligned}$$

Q19

Answer :

$$\begin{aligned}\text{(a) } (2z - 1)(2z - 3) \\4z^2 - 8z + 3 \\&= 4z^2 - 6z - 2z + 3 \\&= 2z(2z - 3) - 1(2z - 3) \\&= (2z - 1)(2z - 3)\end{aligned}$$

Q20

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Answer :

$$(b) (1 + 8y)(3 - y)$$

$$\begin{aligned} 3 + 23y - 8y^2 \\ &= 3 + 24y - y - 8y^2 \\ &= 3(1 + 8y) - y(1 + 8y) \\ &= (3 - y)(1 + 8y) \end{aligned}$$



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He was born on January 2, 1946 in a village of Delhi. He graduated from Kirori Mal College, University of Delhi. After completing his M.Sc. in Mathematics in 1969, he joined N.A.S. College, Meerut, as a lecturer. In 1976, he was awarded a fellowship for 3 years and joined the University of Delhi for his Ph.D. Thereafter, he was promoted as a reader in N.A.S. College, Meerut. In 1999, he joined M.M.H. College, Ghaziabad, as a reader and took voluntary retirement in 2003. He has authored more than 75 titles ranging from Nursery to M. Sc. He has also written books for competitive examinations right from the clerical grade to the I.A.S. level.

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