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33. The value of $(a + b)^2 - (a - b)^2$ is

- (a)
- $4ab$
- (b)
- $-4ab$
- (c)
- $2a^2 + 2b^2$
- (d)
- $2a^2 - 2b^2$

Solution:-

(a) $4ab$

$$\begin{aligned} \text{The value of } (a + b)^2 - (a - b)^2 &= (a^2 + b^2 + 2ab) - (a^2 + b^2 - 2ab) \\ &= a^2 - a^2 + b^2 - b^2 + 2ab + 2ab \\ &= 4ab \end{aligned}$$

In questions 34 to 58, fill in the blanks to make the statements true:

34. The product of two terms with like signs is a _____ term.

Solution:-

The product of two terms with like signs is a positive term.Let us assume two like terms are, $3p$ and $2q$

$$\begin{aligned} &= 3p \times 2q \\ &= 6pq \end{aligned}$$

35. The product of two terms with unlike signs is a _____ term.

Solution:-

The product of two terms with unlike signs is a negative term.Let us assume two unlike terms are, $-3p$ and $2q$

$$\begin{aligned} &= -3p \times 2q \\ &= -6pq \end{aligned}$$

36. $a(b + c) = a \times \underline{\hspace{1cm}} + a \times \underline{\hspace{1cm}}$.

Solution:-

$$a(b + c) = a \times \underline{b} + a \times \underline{c} \quad \dots \text{ [by using left distributive law]} \\ = ab + ac$$

37. $(a - b) \underline{\hspace{1cm}} = a^2 - 2ab + b^2$

Solution:-

$$(a - b) \underline{(a - b)} = (a - b)^2 = a^2 - 2ab + b^2$$

$$(a - b)(a - b) = a \times (a - b) - b \times (a - b)$$

$$= a^2 - ab - ba + b^2$$

$$= a^2 - 2ab + b^2$$

38. $a^2 - b^2 = (a + b) \underline{\hspace{1cm}}$.

Solution:-

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$$\begin{aligned} \frac{5x - 11}{2x^2 + x - 6} &= \frac{A}{x + 2} + \frac{B}{2x - 3} \\ \Rightarrow \frac{5x - 11}{(x + 2)(2x - 3)} &= \frac{A(2x - 3) + B(x + 2)}{(x + 2)(2x - 3)} \\ \Rightarrow 5x - 11 &= A(2x - 3) + B(x + 2) \\ \Rightarrow 5x - 11 &= (2A + B)x + (-3A + 2B) \end{aligned}$$

[Comparing the co-efficient of x and constant term in both the sides]

$$\begin{aligned} 2A + B &= 5 \quad \text{--- (i)} & -3A + 2B &= -11 \quad \text{--- (ii)} \\ \Rightarrow B &= 5 - 2A \quad \text{--- (iii)} \end{aligned}$$

Put the value of $B = 5 - 2A$ in (ii)

$$\begin{aligned} -3A + 2(5 - 2A) &= -11 \\ -3A + 10 - 4A &= -11 \\ -7A &= -21 \\ A &= 3 \end{aligned}$$

Put the value of $A = 3$ in (iii),

$$\begin{aligned} B &= 5 - 2(3) \\ &= 5 - 6 \\ &= -1 \end{aligned}$$

Therefore, $A = 3, B = -1$.

$$x + (x + 8) = 25$$

$$x + x + 8 = 25$$

$$2x + 8 = 25$$

$$2x = 25 - 8$$

$$2x = 17$$

$$x = 17/2$$

$$x = 8.5$$

So, A gets $x + 8$

$$= 8.5 + 8$$

$$= \text{Rs } 16.5$$

23. A term of an equation can be transposed to the other side by changing its _____.

Solution:-

A term of an equation can be transposed to the other side by changing its sign.For example:- $2x + 3 = 0$

Transposing 3 to RHS and it becomes -3

$$2x = -3$$

$$x = -3/2$$

24. On subtracting 8 from x , the result is 2. The value of x is _____.

Solution:-

On subtracting 8 from x , the result is 2. The value of x is 10.

From the question,

On subtracting 8 from x , the result is 2,

$$= x - 8 = 2$$

Transposing -8 to RHS and it becomes 8

$$x = 2 + 8$$

$$x = 10$$

25. $(x/5) + 30 = 18$ has the solution as _____.

Solution:-

 $(x/5) + 30 = 18$ has the solution as -60.Given, $(x/5) + 30 = 18$

Transposing 30 to RHS and it becomes -30.

$$(x/5) = 18 - 30$$

$$(x/5) = -12$$

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