

Qw 26.07.2021

EXERCISE 19(A)

1. Fill in the blanks :

(i) $5 + 4 = 9$

(ii) $12 + 18 = 30$

(iii) $7 + 16 = 23$

(iv) $1 + 3 = 4$

(v) $7 - 4 = 3$

(vi) $12 - 5 = 7$

(vii) $35 - 16 = 19$

(viii) $28 - 13 = 15$

and

$5x + 4x = 9x$

and

$12x^2y + 18x^2y = 30x^2y$

and

$7a + 16b = 7a + 16b$

and

$x^2y + 3xy^2 = x^2y + 3xy^2$

and

$7ab - 4ab = 3ab$

and

$12x - 5y = 12x - 5y$

and

$35ab - 16ba = 19ab \text{ or } 19ba$

and

$28ax^2 - 13a^2x = 28ax^2 - 13a^2x$

$$= 222$$

06.07.2021

Ex-19(A) = 2. Fill in the blanks.

2. i) The sum of -2 and $-5 = -7$ and the sum of $-2x$ and $-5x = -7x$

ii) $12 + 15 = 27$ or $12x$

iii) The sum of 8 and $-3 = 5$ and the sum of $8ab$ and $-3ab = 5ab$

iv) The sum of -15 and $-4 = -19$ and the sum of $-15x$ and $-4y = -15x - 4y$

v) $15 + 8 + 3 = 26$ and $13x + 8y + 3z = 13x + 8y + 3z$

vi) $12 - 9 + 15 = 18$ and $12ab - 9ab + 15ba = 18ab$ or $18ba$

vii) $25 - 7 - 9 = 9$ and $25xy - 7xy - 9yx = 9xy$ or $9yx$

viii) $-4 - 6 - 5 = -15$ and $-4ax - 6ax - 5ay = -10ax - 5ay$

3. Add:

$$\begin{aligned} \text{i) } 8xy \text{ and } 3xy \\ &= 8xy + 3xy \\ &= 11xy \end{aligned}$$

$$\begin{aligned} \text{ii) } 2xyz, xyz \text{ and } 6xyz \\ &= 9xyz \end{aligned}$$

$$\begin{aligned} \text{iii) } 2a, 3a \text{ and } 4b \\ &= 2a + 3a \\ &= 5a \end{aligned}$$

$$\begin{aligned} \text{iv) } 3x \text{ and } 2y \\ &= 3x + 2y \end{aligned}$$

$$\begin{aligned} \text{v) } 5m, 3n \text{ and } 4p \\ &= 5m + 3n + 4p \end{aligned}$$

$$\begin{aligned} \text{vi) } 6a, 3a \text{ and } 9ab \\ &= 6a + 3a \\ &= 9a + 9ab \end{aligned}$$

$$\begin{aligned} \text{vii) } 3p, 4q \text{ and } 9q \\ &= 4q + 9q \\ &= 13q \end{aligned}$$

$$\begin{aligned} \text{viii) } 5ab, 4ba \text{ and } 6b \\ &= 5ab + 4ba \\ &= 9ab \text{ or } 9ba + 6b \end{aligned}$$

$$\begin{aligned} \text{ix) } 50pq, 30pq \text{ and } 10pr \\ &= 50pq + 30pq \\ &= 80pq + 10pr \end{aligned}$$

$$\begin{aligned} \text{x) } -2x, -x, -2y, -y \text{ and } -3y \\ &= -2x + (-x) + (-2y) + (-y) + (-3y) \\ &= -3x - 6y \end{aligned}$$

$$\begin{aligned} \text{xi) } -3b \text{ and } -b \\ &= -3b + (-b) \\ &= -4b \end{aligned}$$

$$\begin{aligned} \text{xiii) } -2c, -c \text{ and } -5c \\ &= -2c + (-c) + (-5c) \\ &= -8c \end{aligned}$$

$$\begin{aligned} \text{xii) } 5b, -4b \text{ and } -10b \\ &= 5b + (-4b) + (-10b) \\ &= -9b \end{aligned}$$

A. Evaluate

$$\begin{aligned} \text{i)} \quad & 6a - a - 5a - 2a \\ & = 5a - 5a - 2a \\ & = -2a \end{aligned}$$

$$\begin{aligned} \text{ii)} \quad & 2b - 3b - b + 4b \\ & = 2b + 4b - 3b - b \\ & = 6b - 3b - b \\ & = 3b - b \\ & = 2b \end{aligned}$$

$$\begin{aligned} \text{iii)} \quad & 3x - 2x - 4x + 7x \\ & = 3x + 7x - 2x - 4x \\ & = 10x - 2x - 4x \\ & = 8x - 4x \\ & = 4x \end{aligned}$$

$$\begin{aligned} \text{iv)} \quad & 5ab + 2ab - 6ab + ab \\ & = 7ab - 6ab + ab \\ & = 1ab + ab \\ & = 2ab \end{aligned}$$

$$\begin{aligned} \text{v)} \quad & 8x - 5y - 3x + 10y \\ & = 8x - 3x - 5y + 10y \\ & = 5x - 5y + 10y \\ & = 5x + 5y \end{aligned}$$

B. Evaluate

$$\begin{aligned} \text{i)} \quad & -7x + 9x + 2x - 2x \\ & = 2x + 2x - 2x \\ & = 2x \end{aligned}$$

$$\begin{aligned} \text{5. ii)} \quad & 5ab - 2ab - 8ab \\ & + 6ab \\ & = 3ab - 8ab + 6ab \\ & = 3ab + 6ab - 8ab \\ & = 9ab - 8ab \\ & = ab \end{aligned}$$

$$\begin{aligned} \text{iii)} \quad & 3x - 2x - 8a - 3a \\ & + 12a + 13a - 6a \\ & = -11a + 12a + 13a - 6a \\ & = a + 13a - 6a \\ & = 14a - 6a \\ & = 8a \end{aligned}$$

$$\begin{aligned} \text{iv)} \quad & 19abc - 11abc \\ & - 12abc + 14abc \\ & = 8abc - 12abc \\ & + 14abc \\ & = -4abc + 14abc \\ & = 10abc \end{aligned}$$

6. Subtract the first term from the second.

$$\begin{aligned} \text{i)} \quad & 4ab, 6ba \\ & = 4ab - 6ba \\ & = -2ba \text{ or } -2ab \end{aligned}$$

$$\begin{aligned} \text{ii)} \quad & 4.8b, 6.8b \\ & = 4.8b - 6.8b \\ & = -2b \end{aligned}$$