

Ex-19(A)



- i)  $5+4 = 9$  and  $5x+4x = 9x$
- ii)  $12+18 = 30$  and  $12x^2y+18x^2y = 30x^2y$
- iii)  $7+16 = 23$  and  $7a+16b = 7a+16b$
- iv)  $1+3 = 4$  and  $x^2y+3xy^2 = x^2y+3xy^2$
- v)  $7-4 = 3$  and  $7ab-4ab = 3ab$
- vi)  $12-5 = 7$  and  $12x-5y = 12x-5y$
- vii)  $35-16 = 19$  and  $35ab-16ba = 19ab$
- viii)  $28-13 = 15$  and  $28ax^2-13a^2x = 28ax^2-13a^2x$

- i) The sum of  $-2$  and  $-5 = -7$  and the sum of  $-2x$  and  $-5x = -7x$
- ii) The sum of  $8$  and  $-3 = 5$  and the sum of  $8ab$  and  $-3ab = 5ab$
- iii) The sum of  $-15$  and  $-4 = -19$  and the sum of  $-5x$  and  $-4y = -5x-4y$
- iv)  $15+8+3 = 26$  and  $15x+8y+3x = 18x+8y$
- v)  $12-9+15 = 18$  and  $12ab-9ab+15ba = 18ba$
- vi)  $25-7-9 = 9$  and  $25xy-7xy-9yx = 9xy$
- vii)  $-4-6-5 = -15$  and  $-4ax-6ax-5ay = -10ax-5ay$

- i)  $8xy$  and  $3xy = 11xy$
- ii)  $2xyz, xyz$  and  $6xyz = 2xyz+xyz+6xyz = 3xyz+6xyz = 9xyz$
- iii)  $2a, 3a$  and  $4b = 2a+3a+4b = 5a+4b$

- iv)  $3x$  and  $2y = 3x+2y$
- v)  $5m, 3n$  and  $4p = 5m+3n+4p$
- vi)  $6a+3a+9ab = 6a+3a+9ab = 9a+9ab$

$$\text{vii.) } 3p, 4q \text{ and } 9q = 3p + 4q + 9q = 3p + 13q$$

$$\text{viii.) } 5ab, 4ba \text{ and } 6b = 5ab + 4ba + 6b = 9ab + 6b$$

$$\text{ix.) } 50pq, 30pq \text{ and } 10pr = 50pq + 30pq + 10pr = 80pq + 10pr$$

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

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

$$\begin{aligned} \text{xii.) } 5b - 4b \text{ and } -10b &= 5b + (-4b) + (-10b) \\ &= 5b - 4b - 10b \\ &= -14b + 5b = -9b \\ &= -9b \end{aligned}$$

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

$$\begin{aligned} \text{(4.) i.) } 6a - a - 5a - 2a \\ &= 6a - a - 5a - 2a = \cancel{2a} 6a - 8a = -2a \\ &= \end{aligned}$$

$$\text{ii.) } 2b - 3b - b + 4b = 2b + 4b - 3b - b = 6b - 4b = 2b$$

$$\text{iii.) } 3x - 2x - 4x + 7x = 3x + 7x - 2x - 4x = 10x - 6x = 4x$$

$$\text{iv.) } 5ab + 2ab - 6ab + ab = 5ab + 2ab + ab - 6ab = 8ab - 6ab = 2ab$$

$$v.) \quad 8x - 5y - 3x + 10y = (8x - 3x) - (5y - 10y)$$

$$vi.) \quad 8x - 5y - 3x + 10y = 8x - 3x - 5y + 10y = 5x + 5y$$

$$(5) \quad vi.) \quad -7x + 9x + 2x - 2x = -7x - 2x + 9x + 2x = -9x + 11x = 2x$$

$$ii.) \quad 5ab - 2ab - 8ab + 6ab = 5ab + 6ab - 2ab - 8ab = 11ab - 10ab = 1ab$$

$$iii.) \quad -8a - 3a + 12a + 13a - 6a = 12a + 13a - 8a - 3a - 6a = 25a - 17a = 8a$$

$$iv.) \quad 19abc - 11abc - 12abc + 14abc = 14abc + 19abc - 11abc - 12abc = 33abc - 23abc = 10abc$$