

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 $7a+16b=23a+16b$

iv) $1+3=4$ and $x^2y+3xy^2=4x^2y$

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

2) 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 $-15x$ and $-4y=-15x-4y$

iv) $15+8+3=26$ and $15x+8y+3x=18x+8y$

v) $12 - 9 + 15 = 18$ and $12ab - 9ab + 15ab = 18ab$

vi) $25 - 7 - 9 = 9$ and $25xy - 7xy - 9xy = 9xy$

vii) $-46 - 5 = -51$ and $-4ax - 6ax - 5ay = -10ax - 5ay$

3) i) $8xy + 3xy$
 $= (8+3)xy$
 $= 11xy$

(ii) $2xyz + xyz + 6xyz$
 $= (2+1+6)xyz$
 $= 9xyz$

(iii) $2a + 3a + 4b$
 $= (2+3)a + 4b$
 $= 5a + 4b$

iv) $3x + 2y$
 $= 3x + 2y$

(v) $5m + 3n + 4p$
 $= 5m + 3n + 4p$

vi) $6a + 3a + 9ab$
 $= (6+3)a + 9ab$
 $= 9a + 9ab$

vii) $3p + 4q$ and $9q$
 $= (4+9)q + 3p$
 $= 13q + 3p$

viii) $5ab + 4ab + 6b$
 $= (5+4)ab + 6b$
 $= 9ab + 6b$

~~ix) $50pq + 30pq + 10pq$
 $= (50+30+10)pq$
 $= 90pq + 10pq$~~

ix) $50pq + 30pq + 10pq$
 $= (50+30)pq + 10pq$
 $= 80pq + 10pq$

x) $-2y + -y + -3y$
 $= (-2-1-3)y$
 $= -6y$

xi) $-3b + -b$
 $= (-3-1)b$
 $= -4b$

xii) $5b + -4b + -10b$
 $= (5-4-10)b$
 $= -9b$

xiii) $-2c + -c + -5c$
 $= (-2-1-5)c$
 $= -8c$

4) i) $6a - a - 5a - 2a$
 $= (6-1-5-2)a$
 $= -2a$

ii) $2b - 3b - b + 4b$
 $= (2-3-1+4)b$
 $= 2b$

~~iii) $8a - 3a + 12a + 13a$
 $= (8-3+12+13)a$
 $= 30a$~~

iii) $3x + 2x - 4x + 7x$
 $= (3+2-4+7)x$
 $= 8x$

iv) $5ab + 2ab - 6ab + ab$
 $= (5+2-6+1)ab$
 $= 2ab$

$$\begin{aligned} & \text{iv) } 8x - 5y - 3x + 10y \\ &= (8x - 3x) - (\cancel{5} - 10)y \\ &= 5x + 5y \end{aligned}$$

$$\begin{aligned} \text{5) i) } & -7x + 9x + 2x - 2x \\ &= (-7 + 9 + 2 - 2)x \\ &= 2x \end{aligned}$$

$$\begin{aligned} \text{ii) } & 5ab - 2ab - 8ab + 6ab \\ &= (5 - 2 - 8 + 6)ab \\ &= ab \end{aligned}$$

$$\begin{aligned} \text{iii) } & -8a - 3a + 12a + 13a - 6a \\ & A = (-8 - 3 + 12 + 13 - 6)a \\ &= 8a \end{aligned}$$

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