

Exercise - 19(A)Add.

1. i) $5 + 4 = 9$ and $-5x$ $5x + 4x = 9x$
 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 $28ax^2 - 13a^2x = 28ax^2 - 13a^2x$

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

3. i) $8xy + 3xy = 11xy$
 ii) $2xyz + xyz + 6xyz = 9xyz$
 iii) $2a + 3a + 4b = 5a + 4b$
 iv) $3x + 2y = 3x + 2y$
 v) $5m + 3n + 4p = 5m + 3n + 4p$
 vi) $6a + 3a + 9ab = 9a + 9ab$
 vii) $3p + 4q + 9q = 3p + 13q$
 viii) $5ab + 4ba + 6b = 9ab + 6b$
 ix) $50pq + 30pq + 10pr = 80pq + 10pr$
 x) $-2c + (-c) + (-5c) = -8c$
 xi) $-3b + (-b) = -4b$
 xii) $5b + (-4b) + (-10b) = -9b$
 xiii) $-2c, -c + (-5c) = -8c$

$$9) i) 6a - a - 5a - 2a = -2a$$

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

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

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

$$v) 8x - 5y - 3x + 10y +$$

$$= 8x - 3x - 5y + 10y$$

$$= 5x + 5y$$

$$5) i) -7x + 9x + 2x - 2x = 2x$$

$$ii) 5ab - 2ab - 8ab + 6ab = ab$$

$$iii) -8a - 3a + 12a + 13a - 6a = 8a$$

$$iv) 19abc - 11abc - 12abc + 14abc = 10abc$$

$$6) i) 4ab, 6ba = 4ab + 6ba - 1ab = 2ab$$

$$ii) 4.88b, 6.8b = 6.8b - 4.8b = 2b$$

$$iii) 3.5abc, 10.5abc = 10.5abc - 3.5abc = 7abc$$

$$iv) 3\frac{1}{2}mn, 8\frac{1}{2} = 8\frac{1}{2} - 3\frac{1}{2} = 5mn$$

$$7) i) (2a^2b^2 + 8a^2b^2) + (5ab^2 - 3ab^2)$$

$$= 10a^2b^2 + 2ab^2$$

$$ii) (4a - 2a) + (3b - b)$$

$$= 2a + 2b$$

$$iii) (2xy + 5xy - 6xy) + (5yz + 3yz)$$

$$= xy + 7yz$$

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$$\text{iv) } ab + 15ab - 11ab - 2ab \\ = 3ab$$

$$\text{v) } (6a^2 + 2a^2 - 4a^2) + (3b^2 + 5b^2) \\ = 4a^2 + 8b^2$$

$$\text{vi) } (8abc - 4abc) + (2ab + ab) \\ = 4abc + 3ab$$

$$\text{vii) } \cancel{9xyz} + 9xyz + 15xyz - 10xyz - 2xyz \\ = 12xyz$$

$$\text{viii) } (13pqr - 6pqr + 5pqr) + (2p + 4q) \\ = 12pqr + 2p + 4q$$

$$\text{ix) } (4ab - 2ba) + 0 \\ = 6ab + 0 \\ = 6ab$$

$$\text{x) } (6x^2y + 5x^2y) - (2xy^2 - xy^2) \\ = 11x^2y - 3xy^2$$