Hw=30/7/21

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class- VI sec- B

Ex= 19(A)

1. Fill in the blanks.

(i) $5+4=$ 9 and $5x+4x=$ 9x

(ii) $12+18=$ 30 and $12z^2y+18z^2y=$ $30z^2y$

(iii) $7+16=$ 23 and $7a+16b=$

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

(v) $7-4=$ 3 and $7ab-4ab=$ 3ab

(vi) $12-5=$ 7 and $12x-5y=$ ___

(vii) $35-16=$ 19 and $35ab-16ba=$ $19ab$

(viii) $28-13=$ 15 and $28a^2z^2-13a^2z=$ ___

2. Fill in the blanks:

(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 $-4y=$ ___

(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 $-4ax-6ax-5ay = -10x-5ay$

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

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

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

(iv) $3xy+2y =$ ____

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

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

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

(xii) $5b+(-4b)+(-10b)$
$= 1b-10b=-9b$

(xiii) $(-2c)+(-c)+(-5c) = -3c+-5c=-6c$

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

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

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

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

(v) $8x-5y-3x+10y$
$= 8x-3x=5x$
$5y+10y=15y$
$= 5x-15y$

5. (i) $-7x+9x+3x-2x$
$= 2x+2x-2x$
$= 4x-2x$
$= 2x$

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

$= 3ab - 8ab + 6ab$

$= -5ab + 6ab$

$= 1ab$

(iii) $-8a - 3a + 13a + 13a - 6a$

Ans: $= -11a + 18a + 13a - 6a$

$= 1a + 13a - 6a$

$= 14a - 6a$

$= 8a$

(iv) $19abc - 11abc - 12abc + 14abc$

Ans: $= 8abc - 12abc + 14abc$

$= -4abc + 14abc$

$= 10abc$

6. Subtract the first term from the second:

Ans: (i) $4ab - 6ab = -2ab$

(ii) $4.8b - 6.8b = -2.8b$

(iii) $3.5abc - 10.5abc = -7.0abc$

(iv) $3\frac{1}{2}mn - 8\frac{1}{2}$

$= \frac{7}{2}mn - \frac{17}{2}mn = \frac{-10}{2}mn = 5mn$

7. Simplify

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

$= 2a^2b^2 + 8a^2b^2 + 5ab^2 - 3ab^2$

$10a^2b^2 - 2ab^2$

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

(iii) $2xy + 4yz + 5xy + 3yz - 6xy$
$= 2xy + 5xy - 6xy + 4yz + 3yz$
$= 1xy + 7yz$

(iv) $ab + 15ab - 11ab - 2ab$
$= ab - 2ab + 15ab - 11ab$
$= ab + 15ab - 11ab - 2ab$
$= 16ab - 13ab$
$= 3ab$

(v) $6a^2 - 3b^2 + 2a^2 + 5b^2 - 4a^2$
Ans $= 6a^2 + 2a^2 - 4a^2 + 3b^2 + 5b^2$
$= 4a^2 + 8b^2$

(vi) $8abc + 2ab - 4abc + ab$
Ans $= 8abc - 4abc + 2ab + ab$
$= 4abc + 3ab$

(vii) $9xyz + 15yxz - 10xyz - 2xzy$
$= 12xyz$

(viii) $13pqr + 2p + 4q - 6pqr + 5pqr$
$= 13pqr - 6pqr + 2p + 4q$
$= 7pqr + 2p + 4q$

(ix) $4ab + 0 - 2ba$
$= 4ab - 2ba = 2ab - 0 = 2ab$

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(2) $6x^2y - 2x^2y^2 + 5x^2y - 2xy^2$

Ans = ~~$6x^2y$~~ $6x^2y + 5x^2y = 11x^3y$

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

$11x^2y + 3x^2y^2$