

HREE ACA



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Subject: Maths

Class:8

Topic: Ch.6 Algebraic Expressions

Watch video #17, and solve the following exercise:

EXERCISE 6.3

Use Cordova Smart Class Software on the smart board in class to do Exercise.

1. Find the following products:

(i)
$$3a^2(2a + 3b)$$
 (ii) $2a^3(3a - b)$

(iii) 7a(2a + 5b)

(iv)
$$-5x (4x - 3b)$$

(v) 2.1x (2.1x - 3y) (vi) $ab (a^3 - b^3)$

$$(vii)$$
 2.5 x $(10x^2 + 100y$

(vii)
$$2.5x (10x^2 + 100y)$$
 (viii) $\frac{2}{3}xy(x^2y - xy^2)$ (ix) $\frac{2}{5}x(x^3 + y^2 - z^2)$

(ix)
$$\frac{2}{5}x(x^3+y^2-z^2)$$

2. Simplify:

(i)
$$6x(x-3) + x(2-5x) + 3x^2$$

(ii) $x(2x-xy)-2y(3y-2x^2y)+x^2(1+y^2)$

(iii)
$$a^2(b^2-2a)-3b(b-2a^2b)+a^2(3-2b^2)$$

(iv)
$$4xy(y-x)-3y^2(x^2-x)-5x^2(y-y^2)$$

(v)
$$a(b-c)+c(a-b)+b(c-a)$$

(vi)
$$a^3(2b-a^2)-2b(a^3-a^2)+3a^2(a^3-b)$$

- 3. Find the product of $3x^3y^2$ and (2x 3y). Also, verify the result for x = -1, y = 2.
- 4. Multiply $\frac{2}{3}x^3y^3$ by (3x 15y) and verify the result for x = 2, y = -1.
- 5. Subtract:

(i)
$$2a (a - 3b + 5c)$$
 from $5a (2a - 3c + b)$

(ii)
$$3x(x-y-z) + 3y(x-y+z) + 3z(x+y-z)$$
 from $3(x+y)(x-y) + 3z(2y+z)$

6. Add: (i)
$$a(a-b)$$
, $b(c-a)$ and $c(b-a)$ (ii) $2x(y-2x+z)$ and $3y(2z+x+x^2)$