

Class 8 Algebraic Expressions and Identities CBSE TEST PAPER - 02

Type: 01

- 1. Factorise $3xy + 9x^2y^3$
- 2. Divide $7x^2y^2z^2 \div 21xyz$
- 3. Subtract $5x^2 4y^2 + 6y 3$ from $7x^2 4xy + 8y^2 + 5x 3y$.
- 4. Add 4y $(3y^2 + 5y 7)$ and 2 $(y^3 4y^2 + 5)$
- 5. Simplify (a + b) (2a 3b + c) (2a 3b) c.

Type: 02

1. Divide

- (i) x³ 1 by x 1
- (ii) 7 +15x -13x² +5x³ by 4 3x + x^{2}

2. Evaluate (i) $1.5^{3} - 0.9^{3} - 0.6^{3}$ (ii) $(a - b)^{3} + (a + b)^{3}$ (iii) $(x + 2y - 3z)^{2} + (x - 2y + 3z)^{2}$

3. If $(x^4 + 1 / x^4) = 47$ find the value of $(x^3 + 1 / x^3)$

4. Find the product of

(i) $(x^4 + 1/x^4)$ and (x + 1/x) (ii) $(2x^2 + 3x - 7)(3x^2 - 5x - 4)$

5.Two adjacent side of a rectangle are $5x^2 - 3y^2$ and $x^2 - 2xy$. Find its perimeter

6. The perimeter of a triangle is $6p^2 - 4p + 9$ and two of its adjacent side are $p^2 - 2p + 1$ and $3p^2 - 5p + 3$. Find third side of triangle.

17. Evaluate

(i) $(5^{-1} \times 3^{-1})^{-1} \times 6^{-1}$ (ii) $(2^{3x+1} + 10) \div 7 = 6$ (ii) $[5^{2x+1}]/25 = 125$ (iv) $(4/9)^4 \times (4/9)^{-7} = (4/9)^{2x-1}$