

Mathematics

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(Chapter - 12) (Factorisation) (Exercise 12.3)

(Class - VIII)

Question 1:

Carry out the following divisions:

(i) $28x^4 \div 56x$

(ii) $-36y^3 \div 9y^2$

(iii) $66pq^2r^3 \div 11qr^2$

(iv) $34x^3y^3z^3 \div 51xy^2z^3$

(v) $12a^3b^5 \div (-6a^2b^4)$

Answer 1:

(i) $28x^4 \div 56x = \frac{28x^4}{56x} = \frac{28}{56} \times \frac{x^4}{x} = \frac{1}{2}x^3$ [$\because x^m \div x^n = x^{m-n}$]

(ii) $-36y^3 \div 9y^2 = \frac{-36y^3}{9y^2} = \frac{-36}{9} \times \frac{y^3}{y^2} = -4y$ [$\because x^m \div x^n = x^{m-n}$]

(iii) $66pq^2r^3 \div 11qr^2 = \frac{66pq^2r^3}{11qr^2} = \frac{66}{11} \times \frac{pq^2r^3}{qr^2} = 6pqr$ [$\because x^m \div x^n = x^{m-n}$]

(iv) $34x^3y^3z^3 \div 51xy^2z^3 = \frac{34x^3y^3z^3}{51xy^2z^3} = \frac{34}{51} \times \frac{x^3y^3z^3}{xy^2z^3} = \frac{2}{3}x^2y$ [$\because x^m \div x^n = x^{m-n}$]

(v) $12a^3b^5 \div (-6a^2b^4) = \frac{12a^3b^5}{-6a^2b^4} = \frac{12}{-6} \times \frac{a^3b^5}{a^2b^4} = -2ab$ [$\because x^m \div x^n = x^{m-n}$]

Question 2:

Divide the given polynomial by the given monomial:

(i) $(5x^2 - 6x) \div 3x$

(ii) $(3y^3 - 4y^2 + 5y) \div y^2$

(iii) $8(x^3y^2z^2 + x^2y^3z^2 + x^2y^2z^3) \div 4x^2y^2z^2$

(iv) $(x^3 + 2x^2 + 3x) \div 2x$

(v) $(p^3q^5 - p^5q^3) \div p^2q^3$

Answer 2:

(i) $(5x^2 - 6x) \div 3x = \frac{5x^2 - 6x}{3x} = \frac{5x^2}{3x} - \frac{6x}{3x} = \frac{5}{3}x - 2 = \frac{1}{3}(5x - 6)$

(ii) $(3y^3 - 4y^2 + 5y) \div y^2 = \frac{3y^3 - 4y^2 + 5y}{y^2} = \frac{3y^3}{y^2} - \frac{4y^2}{y^2} + \frac{5y}{y^2} = 3y - 4 + \frac{5}{y}$

(iii) $8(x^3y^2z^2 + x^2y^3z^2 + x^2y^2z^3) \div 4x^2y^2z^2 = \frac{8(x^3y^2z^2 + x^2y^3z^2 + x^2y^2z^3)}{4x^2y^2z^2}$
 $= \frac{8x^3y^2z^2}{4x^2y^2z^2} + \frac{8x^2y^3z^2}{4x^2y^2z^2} + \frac{8x^2y^2z^3}{4x^2y^2z^2}$
 $= 2x + 2y + 2z = 2(x + y + z)$

(iv) $(x^3 + 2x^2 + 3x) \div 2x = \frac{x^3 + 2x^2 + 3x}{2x} = \frac{x^3}{2x} + \frac{2x^2}{2x} + \frac{3x}{2x} = \frac{x^2}{2} + x + \frac{3}{2} = \frac{1}{2}(x^2 + 2x + 3)$

(v) $(p^3q^5 - p^5q^3) \div p^2q^3 = \frac{p^3q^5 - p^5q^3}{p^2q^3} = \frac{p^3q^5}{p^2q^3} - \frac{p^5q^3}{p^2q^3} = pq^2 - p^3$

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