

Exercise 14.3

Question 1:

Carry out the following divisions.

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

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

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

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

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

Answer:

(i) $28x^4 = 2 \times 2 \times 7 \times x \times x \times x \times x \times x$

$56x = 2 \times 2 \times 2 \times 7 \times x$

$28x^4 \div 56x = \frac{2 \times 2 \times 7 \times x \times x \times x \times x}{2 \times 2 \times 2 \times 7 \times x} = \frac{1}{2} x^3$

(ii) $36y^3 = 2 \times 2 \times 3 \times 3 \times y \times y \times y$

$9y^2 = 3 \times 3 \times y \times y$

$-36y^3 \div 9y^2 = \frac{-2 \times 2 \times 3 \times 3 \times y \times y \times y}{3 \times 3 \times y \times y} = -4y$

(iii) $66pq^2r^3 = 2 \times 3 \times 11 \times p \times q \times q \times r \times r \times r$

$11q^2r = 11 \times q \times q \times r$

$66pq^2r^3 \div 11q^2r = \frac{2 \times 3 \times 11 \times p \times q \times q \times r \times r \times r}{11 \times q \times q \times r} = 6pqr$

(iv) $34x^3y^2z^3 = 2 \times 17 \times x \times x \times x \times y \times y \times z \times z \times z$

$51xy^2z^2 = 3 \times 17 \times x \times y \times y \times z \times z$

$34x^3y^2z^3 \div 51xy^2z^2 = \frac{2 \times 17 \times x \times x \times x \times y \times y \times z \times z \times z}{3 \times 17 \times x \times y \times y \times z \times z} = \frac{2}{3} x^2z$

(v) $12a^3b^4 = 2 \times 2 \times 3 \times a^3 \times b^4$

$6a^2b^3 = 2 \times 3 \times a^2 \times b^3$

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