



Division of Algebraic Expressions Ex 8.2 Q1

Answer :

$$\frac{6x^3y^2z^2}{3x^2yz} = \frac{6 \times x \times x \times x \times y \times y \times z \times z}{3 \times x \times x \times y \times z} = 2x^{(3-2)}y^{(2-1)}z^{(2-1)} = 2xyz$$

Division of Algebraic Expressions Ex 8.2 Q2

Answer :

$$\begin{aligned} & \frac{15m^2n^3}{5m^2n^2} \\ &= \frac{15 \times m \times m \times n \times n \times n}{5 \times m \times m \times n \times n} \\ &= 3m^{(2-2)}n^{(3-2)} \\ &= 3m^0n^1 \\ &= 3n \end{aligned}$$

Division of Algebraic Expressions Ex 8.2 Q3

Answer :

$$\begin{aligned} & \frac{24a^3b^3}{-8ab} \\ &= \frac{24 \times a \times a \times a \times b \times b \times b}{-8 \times a \times b} \\ &= -3a^{(3-1)}b^{(3-1)} \\ &= -3a^2b^2 \end{aligned}$$

Division of Algebraic Expressions Ex 8.2 Q4

Answer :

$$\begin{aligned} & \frac{-21abc^2}{7abc} \\ &= \frac{-21 \times a \times b \times c \times c}{7 \times a \times b \times c} \\ &= -3a^{(1-1)}b^{(1-1)}c^{(2-1)} \\ &= -3c \end{aligned}$$

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