



Division of Algebraic Expressions Ex 8.2 Q5

Answer :

$$\begin{aligned}
 & \frac{72xyz^2}{-9xz} \\
 &= \frac{72 \times x \times y \times z \times z}{-9 \times x \times z} \\
 &= -8x^{(1-1)}yz^{(2-1)} \\
 &= -8yz
 \end{aligned}$$

Division of Algebraic Expressions Ex 8.2 Q6

Answer :

$$\begin{aligned}
 & \frac{-72a^4b^5c^8}{-9a^2b^2c^3} \\
 &= \frac{-72 \times a \times a \times a \times a \times b \times b \times b \times b \times b \times c \times c \times c \times c \times c \times c}{-9 \times a \times a \times b \times b \times c \times c \times c} \\
 &= 8a^{(4-2)}b^{(5-2)}c^{(8-3)} \\
 &= 8a^2b^3c^5
 \end{aligned}$$

Division of Algebraic Expressions Ex 8.2 Q7

Answer :

$$\begin{aligned} & \frac{16m^3y^2}{4m^2y} \\ &= \frac{16 \times m \times m \times m \times y \times y}{4 \times m \times m \times y} \\ &= 4m^{(3-2)}y^{(2-1)} \\ &= 4my \end{aligned}$$

Division of Algebraic Expressions Ex 8.2 Q8

Answer :

$$\begin{aligned} & \frac{32m^2n^3p^2}{4mnp} \\ &= \frac{32 \times m \times m \times n \times n \times n \times p \times p}{4 \times m \times n \times p} \\ &= 8m^{(2-1)}n^{(3-1)}p^{(2-1)} \\ &= 8mn^2p \end{aligned}$$

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