

Division of Algebraic Expressions Ex 8.2 Q1

Answer:

$$rac{6x^3y^2z^2}{3x^2yz} = rac{6 imes x imes x imes x imes y imes y imes z imes z}{3 imes x imes x imes x imes y imes z} \ = \ 2x^{ig(3-2ig)}y^{ig(2-1ig)}z^{ig(2-1ig)} = 2xyz$$

Division of Algebraic Expressions Ex 8.2 Q2

Answer:

$$egin{array}{l} rac{15m^2n^3}{5m^2n^2} \ &= rac{15 imes m imes m imes n imes n imes n}{5 imes m imes m imes n imes n} \ &= 3m^{(2-2)}n^{(3-2)} \ &= 3m^0n^1 \ &= 3n \end{array}$$

Division of Algebraic Expressions Ex 8.2 Q3

Answer:

$$egin{array}{c} rac{24a^3b^3}{-8ab} \\ &= rac{24 imes a imes a imes b imes b imes b}{-8 imes a imes b} \\ &= -3a^{(3-1)}b^{(3-1)} \\ &= -3a^2b^2 \end{array}$$

Division of Algebraic Expressions Ex 8.2 Q4

Answer:

$$\frac{-21abc^{2}}{7abc}$$

$$= \frac{-21 \times a \times b \times c \times c}{7 \times a \times b \times c}$$

$$= -3a^{(1-1)}b^{(1-1)}c^{(2-1)}$$

$$= -3c$$

********** END ********