

Dividing Polynomials by Monomials

$$1 \quad \frac{x^4y^2 + xy^3}{xy}$$

$$2 \quad \frac{56x^4y^4 - 7x^3y^2}{-8xy^5}$$

$$3 \quad \frac{8x^8 - 12x^6}{-4x^8}$$

$$4 \quad \frac{3x^3y^3 - x^2y^2 - 6xy}{3xy}$$

$$5 \quad \frac{9x^2 + 21x - 11}{3x}$$

$$6 \quad \frac{-25x^8y^3 + 35x^7y^2}{5x^2y}$$

$$7 \quad \frac{x^6 - 4x^4 + 3x^2}{5x^2}$$

$$8 \quad \frac{x^5y^3 - 4x^4y^2 + 11xy}{xy}$$

Dividing Polynomials by Monomials

Answers

$$1 \quad \frac{x^4y^2 + xy^3}{xy}$$

$$y(x^3 + y)$$

$$2 \quad \frac{56x^4y^4 - 7x^3y^2}{-8xy^5}$$

$$\frac{-7x^2}{y} \left(x - \frac{1}{8y^2} \right)$$

$$3 \quad \frac{8x^8 - 12x^6}{-4x^8}$$

$$4 \quad \frac{3x^3y^3 - x^2y^2 - 6xy}{3xy}$$

$$-\left(2 - \frac{3}{x^2} \right)$$

$$x^2y^2 - \frac{xy}{3} - 2$$

$$5 \quad \frac{9x^2 + 21x - 11}{3x}$$

$$6 \quad \frac{-25x^8y^3 + 35x^7y^2}{5x^2y}$$

$$3x + 7 - \frac{11}{3x}$$

$$x^5y(-5xy + 7)$$

$$7 \quad \frac{x^6 - 4x^4 + 3x^2}{5x^2}$$

$$8 \quad \frac{x^5y^3 - 4x^4y^2 + 11xy}{xy}$$

$$\frac{1}{5}(x^4 - 4x^2 + 3)$$

$$x^4y^2 - 4x^3y + 11$$