

3.7 - Dividing Polynomials

Dividing by a Monomial

To divide a polynomial by a monomial, _____ each _____ of the polynomial by the _____.

Examples:

Divide the following and then check your answer.

• $\frac{25x^3 + 5x^2}{5x}$

• $\frac{x+5}{5}$

Let's Practice

Divide the following and check your answers.

• $\frac{-9x-3}{-3}$

• $\frac{6c^2 + 3c + 8}{2}$

• $\frac{2p-3}{2p}$

• $\frac{-5a+4}{0}$

- $\frac{30x^7 + 10x^2 - 5x}{5x^2}$

- $\frac{12x^3y^3 - 18xy + 6y}{3xy}$

- $\frac{-12x^4 + 6x^2 - 15x + 4}{-3x}$