

Math 9

Name: _____

5.6 – Dividing Polynomials

Date: _____

Review: Simplifying Fractions

Simplify: $\frac{6}{12} =$

$$\frac{18}{12} =$$

$$\frac{42}{14} =$$

Review: Quotient Law for Exponents

Simplify: $\frac{x^7}{x^2} =$

$$\frac{d^{12}}{d^5} =$$

$$\frac{m^3}{m^{17}} =$$

Dividing Monomials...also called: “Simplifying” and “Finding the Quotient”

Divide/Simplify the following:

$$\frac{9x}{3} =$$

$$\frac{9x^3}{-3} =$$

$$\frac{24x^3m^5}{6} =$$

$$\frac{45x^5y^5}{-15} =$$

$$\frac{9x^5}{-3x^2} =$$

$$\frac{28m^{13}n^7}{4m^2n^6} =$$

Find the quotient: $\frac{-36a^6b^9c^2}{18a^2b^9c} =$

Dividing Polynomials

Evaluate: $\frac{12-4}{2}$

Method 1: $\frac{12-4}{2} =$

Method 2: $\frac{12-4}{2} =$

Divide/Simplify the following:

$$\frac{4x^2 - 8}{4} =$$

$$\frac{-3m^2 + 15}{-3} =$$

$$\frac{7x^2 - 42x}{7} =$$

$$\frac{-5n^2 + 10n - 25}{-5} =$$

$$\frac{-3m^2 - 15m}{3m} =$$

$$\frac{9x^4 - 3x^3 + 3x^2}{-3x^2} =$$

The area of the rectangle given below is $-7x^5 + 14x^2$ and the length is $7x$. Determine the width of the rectangle.

