

Name: _____

Date: _____

Unit 1

Lesson 5

Do Now: Multiply

a) $(3x - 7)(2x + 9)$

b) $(x - 11)(x + 11)$

c) Divide: $\frac{8 + 4}{2}$

d) Can you find another way to divide $\frac{8 + 4}{2}$?

AIM: DIVIDING A POLYNOMIAL BY A MONOMIAL

1) $(10x + 20y) \div 5$

2) $(20x^4 + 10x^3 - 5x^2) \div 5x$

3) $\frac{12x^3 + 8x^2 - 2x}{2x}$

4) $\frac{3ab^2 - 4a^2b}{ab}$

$$5) \frac{14x^2 + 7x}{7x}$$

$$6) \frac{2a^5 - 6a^4}{2a^2}$$

$$7) \frac{24x^3y^4 - 18x^2y^2 - 6xy}{-6xy}$$

$$8) \frac{15y^4 - 12xy^3}{3y^2}$$

9) Subtract $3x^2 + 5x + 5$ from $-x^2 + 6x - 9$

10) Simplify: $(-2x^2 + x + 3) - 5(x^2 + 2x - 1)$