Name: _____ Date: _____

UNIT 1 **LESSON 2**

AIM: HOW DO WE DIVIDE POLYNOMIALS? (DAY 1)

Do Now: Use long division to find the quotient:

a. $\mathbf{5\sqrt{185}}$

b. $\mathbf{11\sqrt{253}}$

We will now apply the same process to divide polynomials!

1) $\dfrac{2x^2+5x+3}{x+1}$

2) $\dfrac{2x^2+x-10}{x-2}$

DIVIDEND: _____

DIVISOR: _____

The answer to the division problem is called the _____

3) $(x^2 - 2x - 15) \div (x + 3)$

4) $(2x^3 + x^2 - 16x + 15) \div (2x - 3)$

PRACTICE:

5) $(x^2 + 6x + 9) \div (x + 3)$

6) $\frac{x^3+2x^2+2x+1}{x+1}$

7) $(7x^3 - 8x^2 - 13x + 2) \div (7x - 1)$

8) $\frac{2x^3-13x^2-x+3}{2x+1}$