FMP10 Name: _____
Date: _____

3.3 Polynomial Division

Polynomial ÷ Monomial (recall from Math 9)

Ex.

$\frac{4x+2}{2}$ * turn into a series of monomial/monomial divisions

$= \frac{4x}{2} + \frac{2}{2}$

$=$

Ex. $\frac{6x^3-12x^2}{3x}$

Ex. $\frac{15x^3y^2-10xy^4+25x^4y^3}{-5xy^2}$

Polynomial ÷ Binomial (Long Division)

Recall from grade ???

Ex. Solve by long division: $612 \div 5$

*note: $\frac{dividend}{divisor} = quotient + \frac{remainder}{divisor}$

Similar for polynomial division:

Ex. Solve:

$6x^2 + 7x + 9 \div 2x + 1$

$-3x + 5 + x^2 \div x - 2$

$8x^2 + 11 - 6x \div 2x - 3$

$9m^2 - 5 \div 3m + 2$

Practice: Worksheet (B-25/C-13)/ front on sheet; back work on separate sheet