

Name:

Date:

Topic:

Class:

Main Ideas/Questions	Notes/Examples	
Review! Dividing by a MONOMIAL	1. $\frac{6x^4 - 15x^3 + 3x^2}{3x^2}$	2. $\frac{21a^5b^3 - 14a^3b^2 + 63a^2b}{7ab}$
New! Dividing by a BINOMIAL	Directons: divide the polynomials below.	
	3. $\frac{w^2 - 7w + 10}{w - 5}$	4. $(4h^2 - 7h - 2) \div (h - 2)$

WHAT IF FACTORING IS NOT POSSIBLE??

Method 1: Long Division

5. $(x^2 + 3x - 43) \div (x + 8)$

6. $(x^2 + 3x - 43) \div (x + 8)$

Directons: Use long

division to divide the polynomials below.

7. $(2n^2 - 16n + 19) \div (n - 7)$

8. $(y^3 + 5y^2 - 7y + 2) \div (y - 2)$

**Missing Powers
in the Dividend**

9. $(k^3 - 17k + 32) \div (k + 5)$

10. $(8x^4 - 64x^3 + 3x - 28) \div (x - 8)$