

Pick up Week #6 Packet and start on bell ringer

Monday 9/23

Multiply the polynomials.

1. $(x-6)(4x+3)$

$4x^2$	$-24x$
$+3x$	-18

$4x^2 - 24x + 3x - 18$

$4x^2 - 21x - 18$

2. $(3x+2)^2$

$9x^2$	$+6x$
$+2x$	$+4$

$9x^2 + 6x + 2x + 4$

$9x^2 + 12x + 4$

3. $(x+2)(x^2+3x-4)$

x^3	$+3x^2$	$-4x$
$+2x^2$	$+6x$	-8

$x^3 + 5x^2 + 2x - 8$

4. $3x^2y(5x+2x^3y-4x)$

$15x^3y + 6x^5y^2 - 12x^3y$

$6x^5y^2 + 3x^3y$

Week #5 packet due tomorrow :)

Factor the polynomial

- 1 - Put in standard form
- 2 - Multiply a and c
- 3 - Find factors of ac that add to b
- 4 - Rewrite trinomial by splitting b into the two factors found in step 3
- 5 - Factor by grouping :)

$$x^2 + 13x - 30$$
$$(x - 2)(x + 15)$$

		-30
	-1	30
	1	-30
	-2	15
	2	-15

Factor the Polynomial

- 1 - Put in standard form ✓
- 2 - Multiply a and c ✓
- 3 - Find factors of ac that add to b ✓
- 4 - Rewrite trinomial by splitting b into the two factors found in step 3
- 5 - Factor by grouping :)

$$(x+3)(x+2)$$

$$x^2 - 12x + 27$$

$$\begin{array}{c} +27 \\ \swarrow \quad \searrow \\ -1 \cdot -27 \\ \hline -3 \cdot -9 \end{array}$$

$$(x-3)(x-9)$$

$$x^2 + 3x - 70$$

$$x^2 + 15x + 50$$

$$x^2 + 6x + 8$$

$$x^2 + x - 12$$

$$x^2 - 7x - 18$$

$$x^2 - 7x - 30$$

$$x^2 + 2x + 1$$

Homework Time

2.5 Day 2 pg 93-94 #s 11, 15, 19, 23, 27, 28,
31, 35, 41, 43

