Bell Ringer

Tuesday 10/1 Factor Completely 1. x^2-25 (x + 5)(x - 5) ((0x+7)(0x-9)((4a+13)(4a-13b)

Week #6 packet due! Add up your scores (honestly) at the bottom Put first and last name legibly please!

Quick Review... Factoring Match Game

$$\chi^2 - 5x + 6$$
 $(\chi - 2)(\chi - 3)$

Essential Question

How can you factor a polynomial completely?

$$7x^4 - 63x^2$$

$$7x^{2}(x^{2}-9)$$

I do...

Factor the polynomial completely.

$$2y^{3} - 12y^{2} + 18y$$

$$2y(y^{2} - 6y + 9)$$

$$2y(y - 3)$$

$$2y(y - 3)$$

We do...

Factor completely
$$x^3 - 4x^2 - 4x + 16$$
 $x^2(x-4) - 4(x-4)$
 $(x-4)(x^2-4)$
 $(x-4)(x+2)(x-2)$

Do w partner...

Factor the polynomial completely.

Do alone...

$$m^{3} - 2m^{2} - 8m$$
 $m(lm^{2} - 2m - 8)$
 $m(m+2)(m-4)$

I do...

$$3x^{3} - 12x = 0$$
 $3x(x^{2} - 4) = 0$
 $3x(x^{2} - 4) = 0$
 $3x(x + 2)(x - 2) = 0$

We do...

$$2x^{3} + 8x^{2} = 10x$$

$$2x^{3} + 8x^{2} - 10x = 0$$

$$2x(1x^{2} + 4x - 5) = 0$$

$$2x(1x^{2} + 4x - 5) = 0$$

$$2x(x + 5) = 0$$

$$2x(x + 5) = 0$$

$$2x(-5) = 0$$

$$2x(-5) = 0$$

$$x - 0, -5, 1$$

$$w^{3} - 8w^{2} + 16w = 0$$

$$w(1w^{2} - 8w + 16) = 0$$

$$w(w - 4)(w - 4) = 0$$

$$w = 0$$

$$w = 0$$

$$w = 4$$

$$w = 4$$

$$w = 4$$

Do w partner...

Do alone...

$$24c^{3} = 54c$$

$$-5k - 54c$$

$$24c^{3} - 54c = 0$$

$$6c(4c^{2} - 9) = 0$$

$$6c(2c + 3)(2c - 3) = 0$$

$$6c = 2c + 3 = 3$$

$$c = 0$$

$$2c = 3$$

$$c = 0$$

$$2c = -3$$

$$c = -3$$

$$c = -3$$

due Thursday
2.8 pg 111-112 #s 1-2, 3, 7, 11, 15, 19, 23, 27,
29, 33, 35, 42