7D9B8 2nd ——

3rd-**7D9BY**

4th _____ **7D9B9**

Jan 10-8:07 AM

Warm Up

Can you fill in the blank with the factor that got distributed???

1)
$$\sqrt{(x+3)} = 2x^2 + 6x$$

2)
$$4(2x^2-4x+1)=8x^2-16x+4$$

3)
$$- U_{\times}(5x - 3) = -20x^2 + 12x$$

4) $3x(\sqrt{x^2 + 5}) = 3x^3 + 15x$

4)
$$3x(\chi_{+5}) = 3x^3 + 15x$$

LT 4.3 Textbook Chapter 4.3A

Topic: Greatest Common Factor

How Can I translate quadratic functions from standard form into Intercept form?

- 1) Greatest common Factor
- 2) Count Terms
- 3) Finish Factoring

Jun 10-9:15 AM

Intro to Factoring: GCF

Definition of a Factor: Numbers you can multiply together to get another number

 $2 \times 3 = 6$, 2 and 3 are factors

Find the missing Factor of the problem:

1.
$$5 \times 6 = 30$$

2.
$$7 \times 8 = 56$$

3.
$$150 = 6 \times 25$$

List all the Factors of:

$$36x^{2}$$
 $1,34$
 $36x^{2}$
 $36x^{2}$

Aug 28-7:15 AM

Factoring out the Greatest Common Factor

What is the greatest common factor (GCF)? It is the largest value that you can divide out of every term.

What is the GCF of...

$$3x,9x^{2},18$$

GLF=3

 $6x^{2},12x^{3},9x$

GLF=3 \
 $4a^{2}b,12ab^{2},16a$

GLF=4 \

Factoring out the Greatest Common Factor

Factor out the greatest common factor.

G(F=7x) G(F-3t)

$$14x^2-49x$$
 $3x^3+27x^2-9x$
 $7 \times (2x-7) = 14x^2-49 \times 31 (4x^2+9x-3)$

Sep 15-3:44 PM

Factoring out the Greatest Common Factor

Factor out the greatest common factor.

$$G(F=5) = G(F=2b)$$

$$25z^{2} + 5z \qquad 4a^{2}b + 6ab - 2b^{2}$$

$$5 + 2(5 + 1) = 2b(2a^{2} + 3a - 1b)$$

Factoring out the Greatest Common Factor

Write the quadratic in intercept form and identify the intercepts.

$$G(F = 2 \times 1)$$

$$y = 2x^{2} - 4x$$

$$Y = (2 \times 1)(x - 2)$$

$$Y = (2 \times 1)(x + 2)$$

$$\begin{array}{l}
\mathcal{L} \subset \mathcal{L} = -5 \\
y = -5x^2 + 15x \\
4 \leq -5 \\
\chi \times -3
\end{array}$$

$$\begin{array}{l}
\mathcal{L} = 5 \\
\chi \times -3
\end{array}$$

Sep 15-3:44 PM

Multiply:

$$1.(x + 3)(x + 4)$$
 | 2. $(x - 3)(x - 4)$

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

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

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