Name:_____ Hour: _____ Date: _____

NOTES: Factoring Review

Goals: #1 - I can factor monomial expressions.

#2 - I can factor binomial expressions.
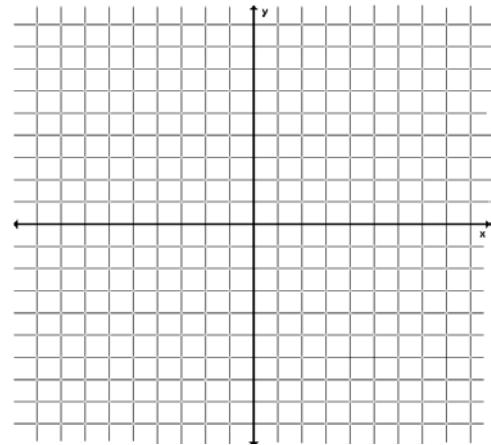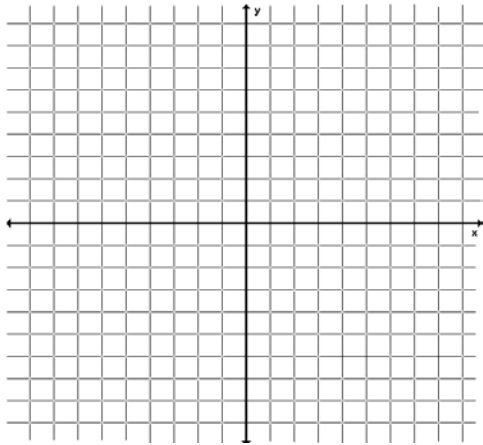
#3 - I can factor trinomial expressions.

Homework: Factoring Review Worksheet

Warm Up:

1. Graph the funciton. Identify the graph's asymptotes and the function's domain and range.

a. $y = \frac{-1}{x+4} + 3$

b. $f(x) = \frac{x+3}{x-1}$

asymptotes: _____

asymptotes: _____

domain: _____

domain: _____

range: _____

range: _____

Exploration #1: Work with a partner and factor the following expressions.

1. $x^2 - 12x + 20$

2. $5x^2 - 8x - 4$

3. $x^2 - 16$

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Notes:

A _____ expression is a _____ term:

To _____ monimials, we write them as factor _____.

    Example: $45x^3$

Practice: Factor the monomial expressions.

    1. $18x^2$ 2. $50x^7$ 3. $4x$

Notes:

A _____ expression has exactly _____ terms:

To _____ binomials, we first check if we can factor out a _____.

    Example: $8x^2 - 2x$

Some binomials have _____ factoring patterns we need to look for!

- _____:

    Example: $x^2 - 16$

- _____:

    Example: $x^3 - 64$

Practice: Factor the binomial expressions.

    1. $14x^3 - 21x^2$ 2. $x^4 - 4x^2$ 3. $2x^5 + 54x^2$

Notes:

A _____ expression has exactly _____ terms:

To _____ trinomails, we first check if we can factor out a _____.

Then, we use the _____ method to factor.

      Example: $2x^2 + 5x + 2$

Practice: Factor the trinomial expressions.

    1. $x^2 - 9x + 20$ 2. $12x^2 - 28x - 24$ 3. $3x^2 + 10x - 8$