

What's Going On?

Checking In

Minds on

Taking Up Some Homework

Action!

Graphing by Factoring

Consolidation

You Make the Note

Learning Goal - I will be able to Graph Quadratic Functions by Factoring

Checking In

FILL OUT YOUR HOMEWORK
LOG FOR THE PAST TWO DAYS

GET OUT YOUR WORK FROM
LAST NIGHT TO SHOW ME

12% of Period 2 students, and **19%** of Period 3 students did any of last night's homework.

Minds on

Taking Up Some Homework

$$4.f) m^2 - 7m = 18$$

Minds on

Taking Up Some Homework

$$5.f) 10y^2 - 16y = -6$$

Minds on

Taking Up Some Homework

$$6.e) 5t^2 - 20t = 0$$

Minds on

Taking Up Some Homework

$$6.f) 0 = 4x + 3x^2$$

Minds on

Taking Up Some Homework

$$7.e) 1.3 = x^2 + 0.3$$

Minds on

Taking Up Some Homework

$$7.f) 1.25 + z^2 = 1.5$$

Minds on

Taking Up Some Homework

$$8.e) 5r^2 = 2r$$

Minds on

Taking Up Some Homework

$$8.f) (x - 6)^2 - 8x = 0$$

Minds on

Taking Up Some Homework

$$9.e) \frac{x^2}{2} + \frac{7x}{4} = 0$$

Minds on

Taking Up Some Homework

$$9.f) \frac{x^2}{4} - \frac{x}{3} = \frac{1}{3}$$

Action!

Graphing by Factoring

With your partner:

1. Create a grid that goes

UP to 20, DOWN to -21,
LEFT to -12 and RIGHT to +12

USE MY GRAPH PAPER

2. Factor your standard form equation.

3. Figure out a way to graph it!

You must include: the vertex
any 4 additional points

4. Come check with me!!!!

I need to see your factored form equation,
vertex, x-intercepts, axis of symmetry,
y-intercept written down.

5. Graph it nicely on your graph paper with markers. Be sure to label all the junk.

$$y = -3(x + 12)(x - 15)$$

Zeros: $x = -12, +15$

axis of symmetry: $x = 1.5$

Vertex

x-value: $+1.5$

y-value:

$$y = -3(x + 12)(x - 15)$$

$$y = 546.75$$

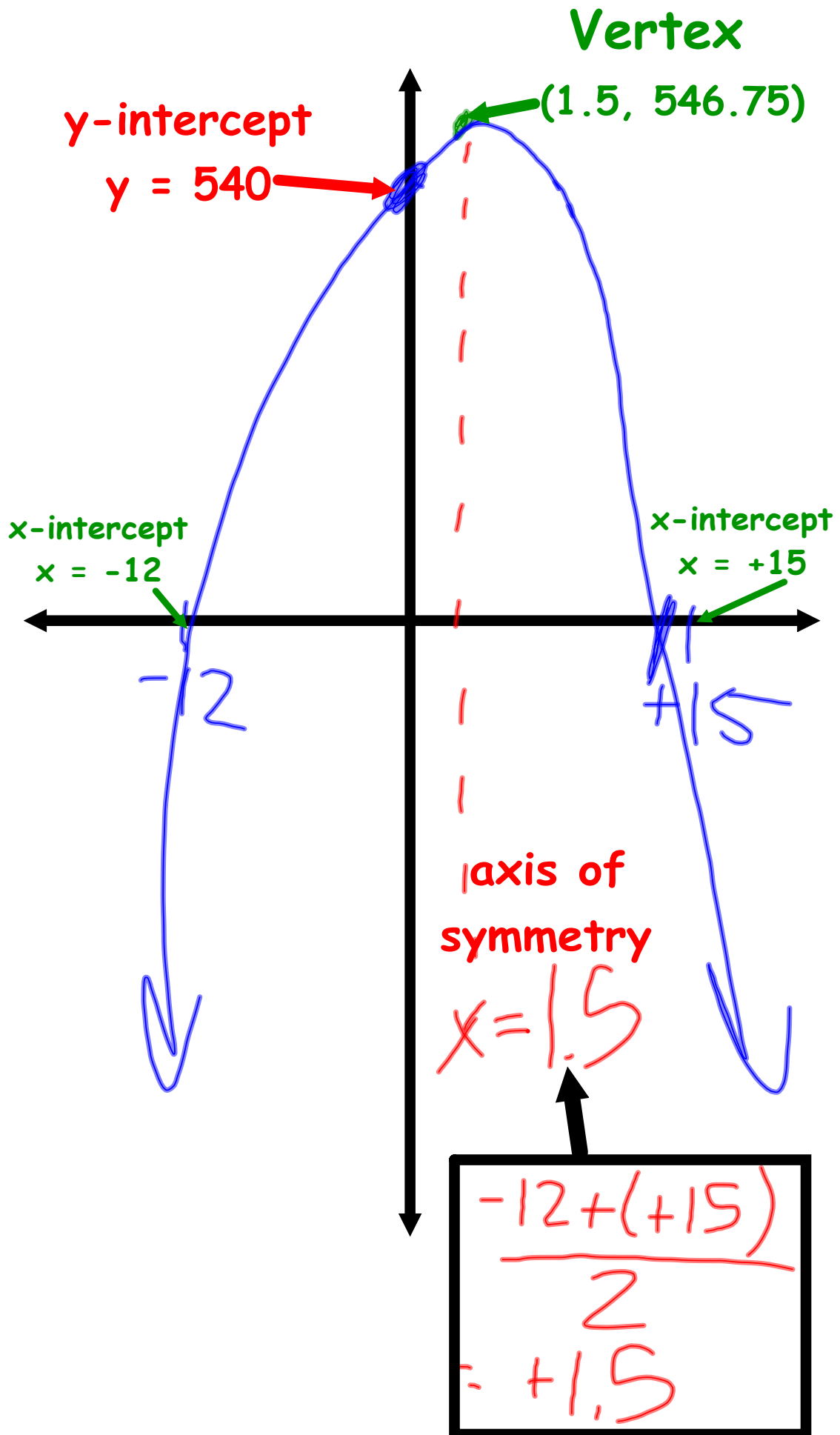
Vertex Form Equation

$$y = -3(x - 1.5)^2 + 546.75$$

y-intercept: $x = 0$

$$y = -3(x + 12)(x - 15)$$

$$y = -3(+12)(-15) = 540$$



Consolidation

You Make the Note!

Graphing by Factoring

Given an Equation in Standard Form

- 1.
- 2.
- 3.
- 4.
- 5.

Consolidation

Homework

Pg. 287

#7

Explain, in words, how to create a graph of a quadratic equation in Standard Form