

Algebra 2 Test

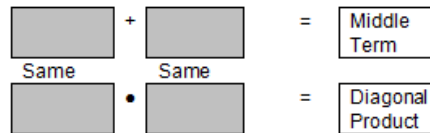
Graphing Trinomials and Factoring

Name: _____

2/3/2010

For each of the following problems factor them.

<i>Factor Box</i>	GCF	GCF
GCF	First Term	
GCF		Last Term



1) $x^2 + 8x + 15$

2) $4x^2 - 2x - 20$

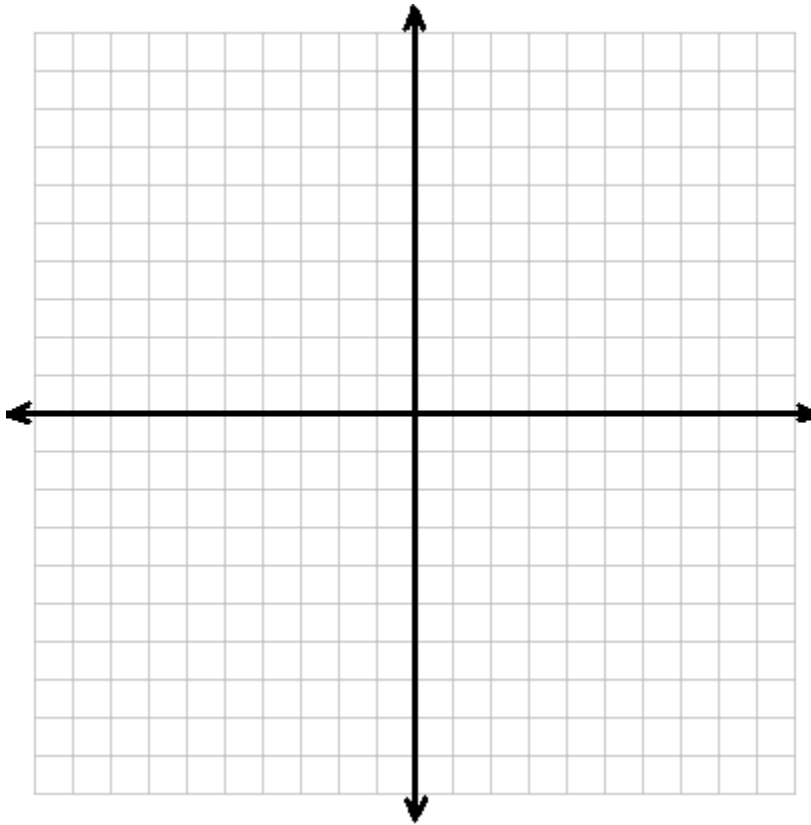
3) $x^2 - 49$

Graph each of the following using the steps below

$$y = a(x - p)(x - q)$$

- 1) Find p and q... (Hint they will always be the opposite sign of what is in the problem)
- 2) Find the x-intercepts (p , 0) and (q , 0)
- 3) Find the Axis of Symmetry $x = \frac{p+q}{2}$
- 4) Find the Vertex
- 5) Find a second point on one side of the axis of symmetry
- 6) Mirror the point over the axis of symmetry

4) $y = (x + 8)(x - 3)$



Graph each of the following using the steps below

5) $y = 3x^2 + 15x - 42$

