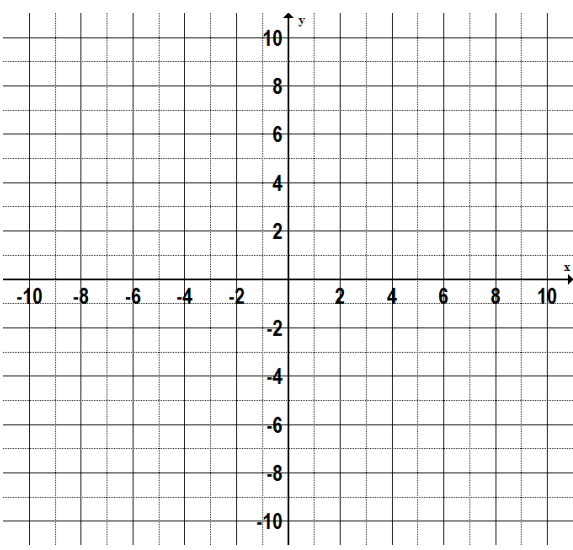
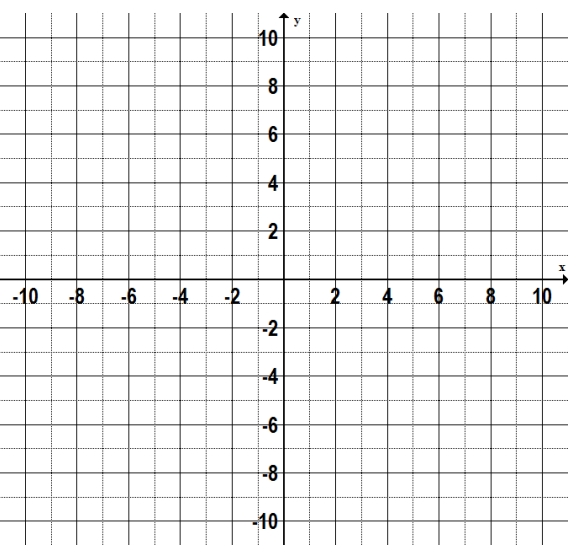
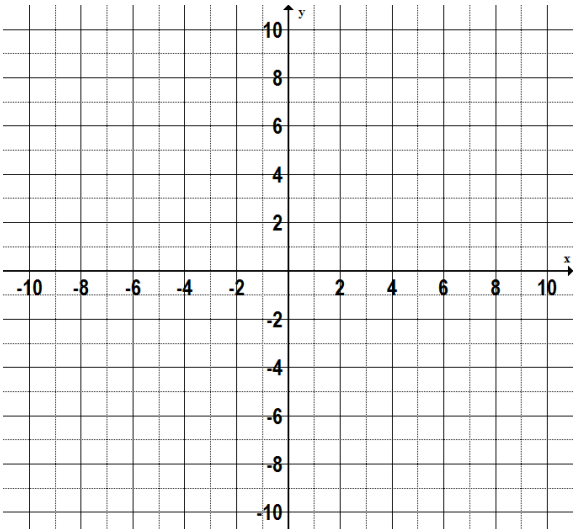
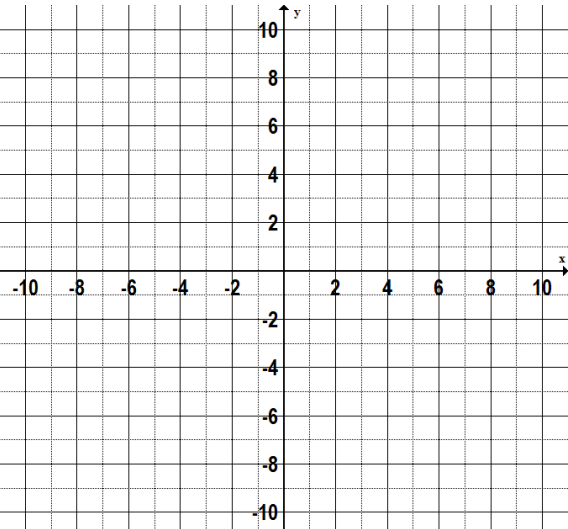


Name: _____

1. Graph each parabola. Label the vertex and axis of symmetry.

<p>a. $y = x^2 - 6$</p> 	<p>c. $y = -3(x + 4)^2 + 2$</p> 
<p>b. $y = (x - 2)^2 - 1$</p> 	<p>d. $y = -x^2 + 6x$</p> 

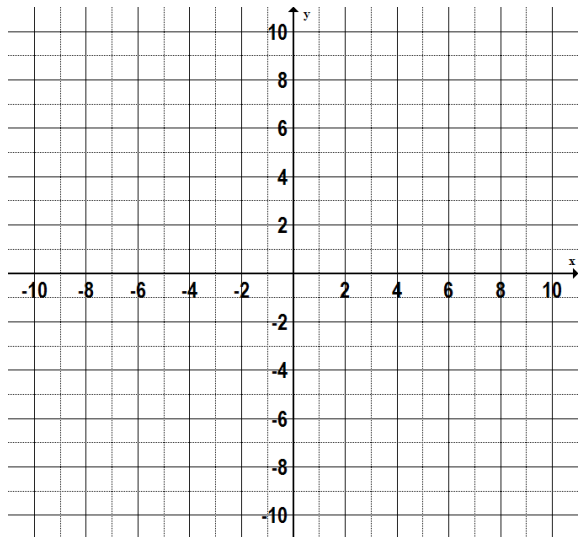
2. Solve each quadratic equation.

<p>a. $x^2 - 5x + 6 = 0$</p>	<p>b. $3x^2 - 5 = 70$</p>
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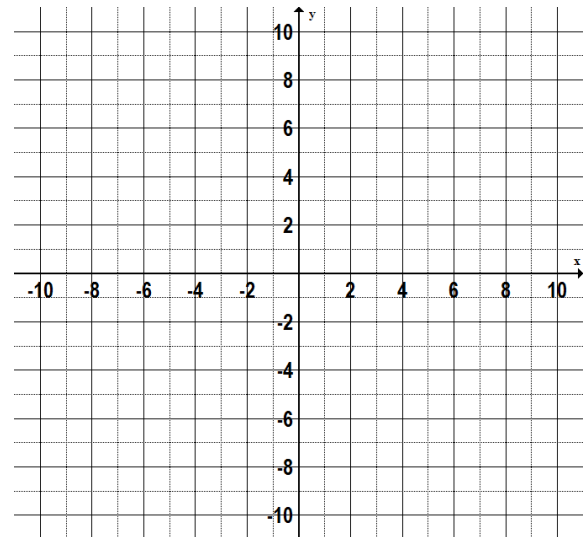
Name: _____

3. For each quadratic relation, list the transformations you need to apply to $y = x^2$ to graph the relation. Then sketch the graph.

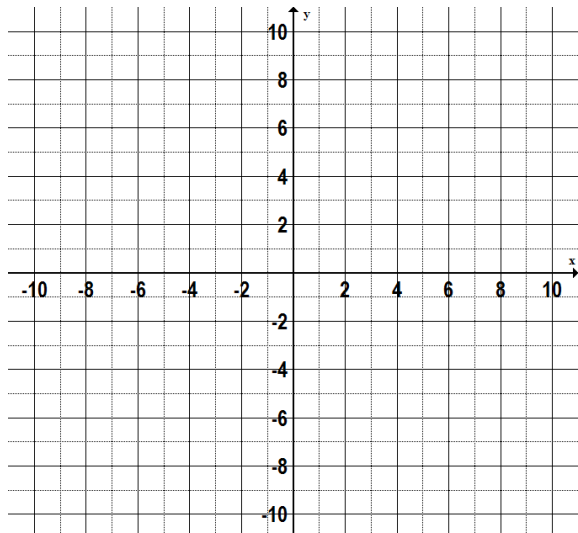
a. $y = x^2 - 2$
Transformations:



c. $y = \frac{1}{2}(x - 1)^2 - 4$
Transformations:



b. $y = -4x^2 + 3$
Transformations:



d. $y = -2(x + 3)^2 + 5$
Transformations:

