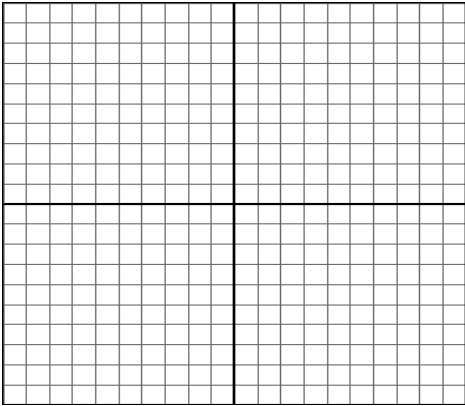
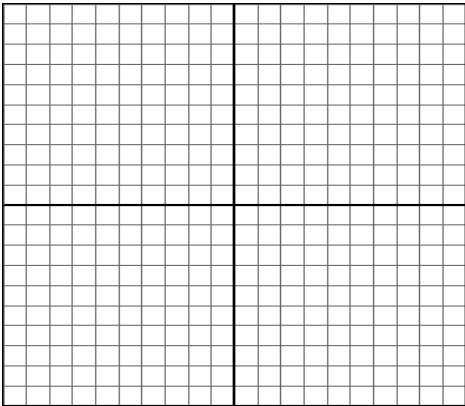


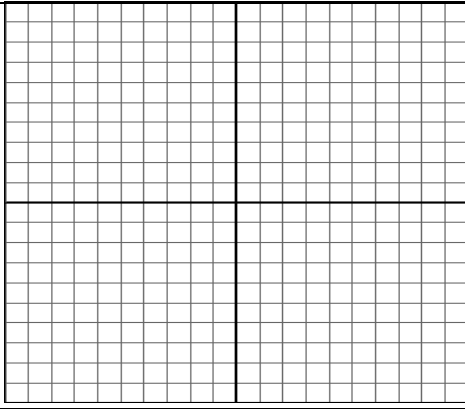
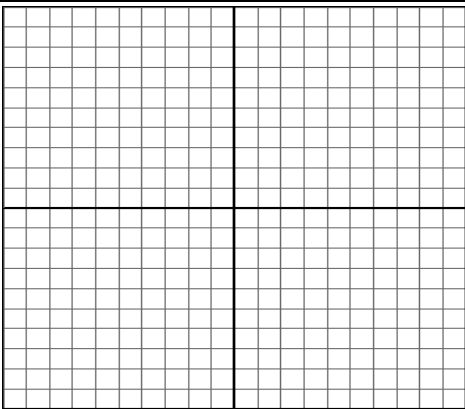
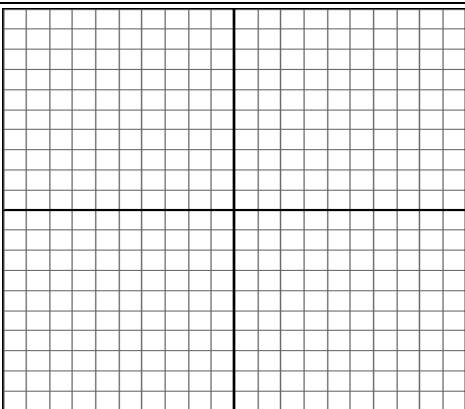
QUADRATICS FUNCTION PARTNER ASSESSMENT

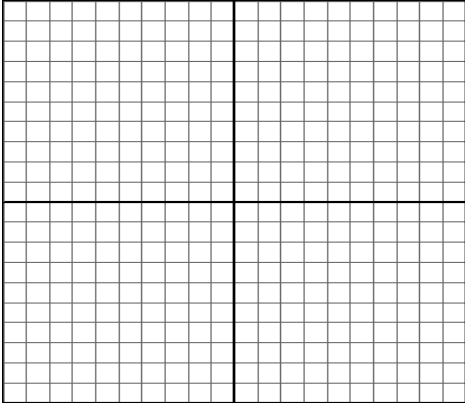
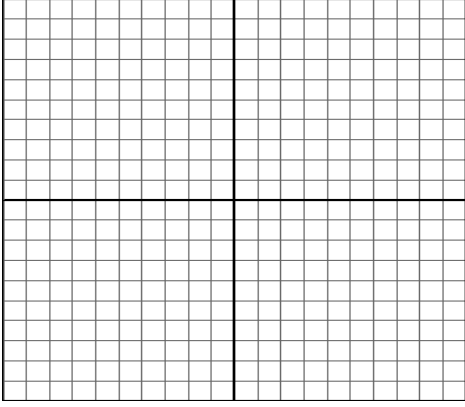
Partners Names: _____

1. For each quadratic function below you and your partner will:

- a) Describe the transformations that have transformed $y=x^2$ into the given quadratic function.
- b) Determine the coordinates of the vertex, opening, max/min, and the number of zeros.
- c) Graph the basic graph $y = x^2$ on all grids.
- d) Graph the new parabola on the grid in a different colour.

Quadratic Relation	Transformations	Characteristics	Graph
$y = 2x^2$		Vertex: _____ Direction of Opening: _____ Maximum/Minimum? _____ Number of Zeroes _____	
$y = 2x^2 + 2$		Vertex: _____ Direction of Opening: _____ Maximum/Minimum? _____ Number of Zeroes _____	

$y = -\frac{1}{2}x^2$		Vertex: _____ Direction of Opening: _____ Maximum/Minimum? _____ Number of Zeroes _____	
$y = -\frac{1}{2}x^2 + 5$		Vertex: _____ Direction of Opening: _____ Maximum/Minimum? _____ Number of Zeroes _____	
$y = (x - 4)^2$		Vertex: _____ Direction of Opening: _____ Maximum/Minimum? _____ Number of Zeroes _____	

$y = (x + 2)^2 - 3$		Vertex: _____ Direction of Opening: _____ Maximum/Minimum? _____ Number of Zeroes _____	
$y = -3x^2 + 2$		Vertex: _____ Direction of Opening: _____ Maximum/Minimum? _____ Number of Zeroes _____	
$y = \frac{1}{3}(x + 2)^2 - 1$		Vertex: _____ Direction of Opening: _____ Maximum/Minimum? _____ Number of Zeroes _____	