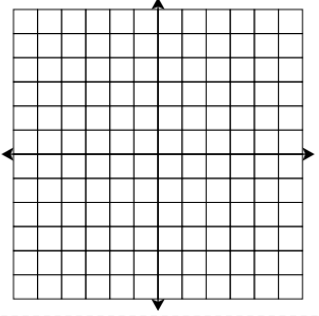
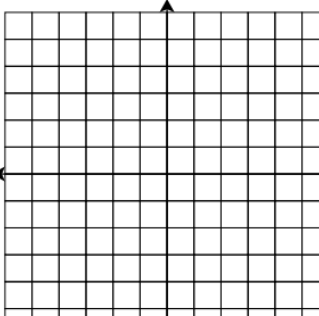
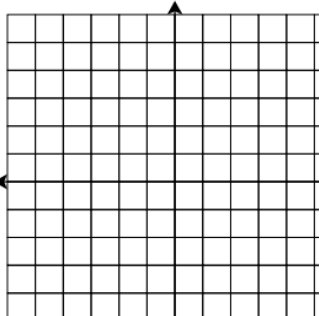
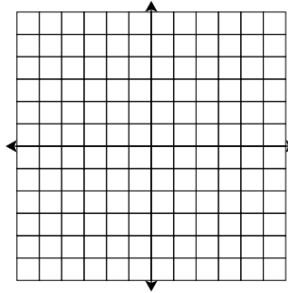
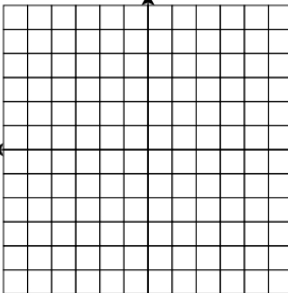
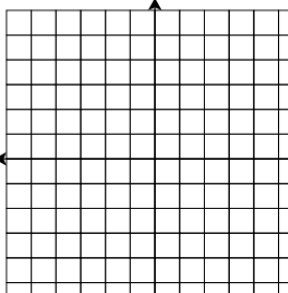
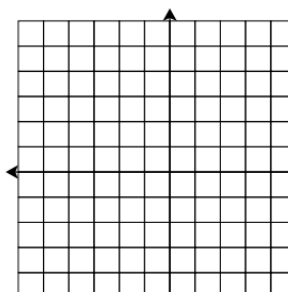


Name: _____
 Period: _____
 Date _____

Graphing From Roots and Vertex Practice

instructions: Rewrite the following functions in vertex and factored form. Then, find the roots, vertex, and y-intercept of the following functions and label them as ordered pairs (x,y) on the graph. Sketch the graph on the axes provided. Remember your tools: factoring, quadratic formula, axis of symmetry, and completing the square.

Standard Form: $y = x^2 + 4x + 3$ y intercept? (,)	Vertex Form: Vertex? (,)	Factored Form Roots? (,) and (,)	
Standard Form: $y = x^2 - 2x + 1$ y intercept? (,)	Vertex Form: Vertex? (,)	Factored Form Roots? (,) and (,)	
Standard Form: y intercept? (,)	Vertex Form: Vertex? (,)	Factored Form Roots? (,) and (,)	

Standard Form:	Vertex Form: $y = (x - 2)^2 + 1$	Factored Form	
y intercept? (,)	Vertex? (,)	Roots? (,) and (,)	
Standard Form:	Axis of Symmetry	Factored Form $y = 2(x - 1)(x + 2)$	
y intercept? (,)	Vertex? (,)	Roots? (,) and (,)	
Standard Form:	Vertex Form: $y = -(x - 3)^2 + 4$	Quadratic Formula	
y intercept? (,)	Vertex? (,)	Roots? (,) and (,)	
Standard Form:	Vertex Form: $y = -2(x + 3)^2 + 1$	Quadratic Formula	
y intercept? (,)	Vertex? (,)	Roots? (,) and (,)	