Name_____ Date_____ Per_____

Graphing Quadratic Functions in Vertex Form Assignment

$y = (x + 3)^2 - 5$

Part I: Analyze

a.) Open or down? _____

b.) Vertex: _____

c.) Max or Min? _____

d.) Axis of Symmetry: _____

e.) Normal, Narrow, or Wide? _____

f.) y-intercept: _____

g.) Domain: _____ Range: _____

h.) Inc: _____ Dec: _____

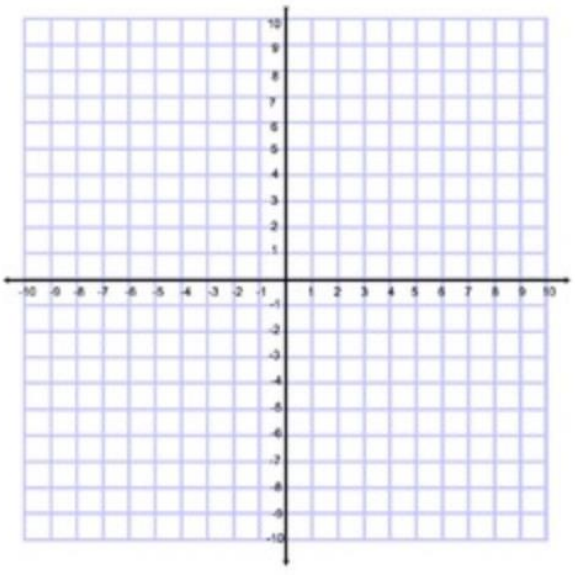
Part II: Transformations

Name all the transformations from the parent function.

_____

_____

Part III: Graph



$y = 2(x - 1)^2 - 8$

Part I: Analyze

a.) Open or down? _____

b.) Vertex: _____

c.) Max or Min? _____

d.) Axis of Symmetry: _____

e.) Normal, Narrow, or Wide? _____

f.) y-intercept: _____

g.) Domain: _____ Range: _____

h.) Inc: _____ Dec: _____

Part II: Transformations

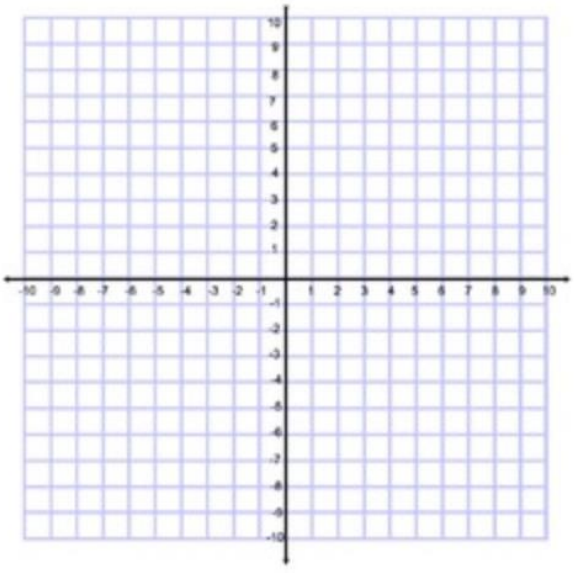
Name all the transformations from the parent function.

_____

_____

_____

Part III: Graph



Name_____ Date_____ Per_____

Graphing Quadratic Functions in Vertex Form Assignment

$y = -2(x+1)^2 + 6$

Part I: Analyze

a.) Open or down? _____

b.) Vertex: _____

c.) Max or Min? _____

d.) Axis of Symmetry: _____

e.) Normal, Narrow, or Wide? _____

f.) y-intercept: _____

g.) Domain: _____ Range: _____

h.) Inc: _____ Dec: _____

Part II: Transformations

Name all the transformations from the parent function.

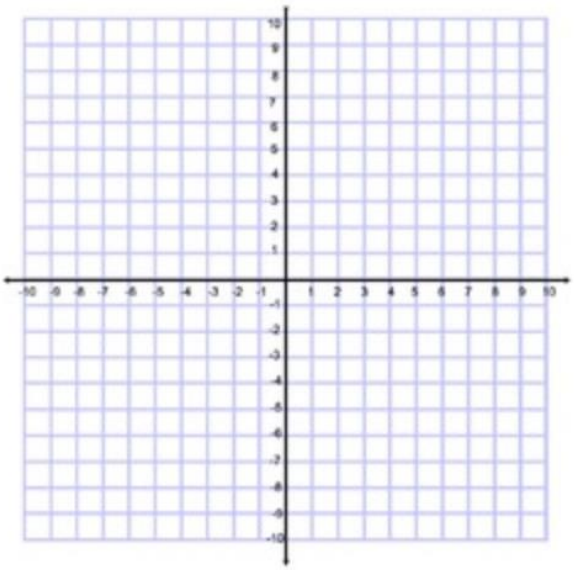
_____

_____

_____

_____

Part III: Graph



$y = \frac{1}{2}(x-4)^2 + 1$

Part I: Analyze

a.) Open or down? _____

b.) Vertex: _____

c.) Max or Min? _____

d.) Axis of Symmetry: _____

e.) Normal, Narrow, or Wide? _____

f.) y-intercept: _____

g.) Domain: _____ Range: _____

h.) Inc: _____ Dec: _____

Part II: Transformations

Name all the transformations from the parent function.

_____

_____

_____

Part III: Graph