Practice Worksheet: Graphing Quadratic Functions in Vertex Form

For #1-6, label the axis of symmetry, vertex, y-intercept, and at least three more points on the graph.

1] $y = (x - 3)^2$

A xis of Symmetry is x=_____

V ertex: (____, ___)

Opens up or down?

Slope to point one unit from the

vertex is _____.

y-intercept: (0,____)

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

A xis of Symmetry is x=_____

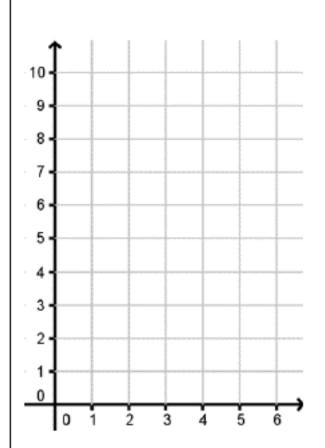
V ertex: (____, ___)

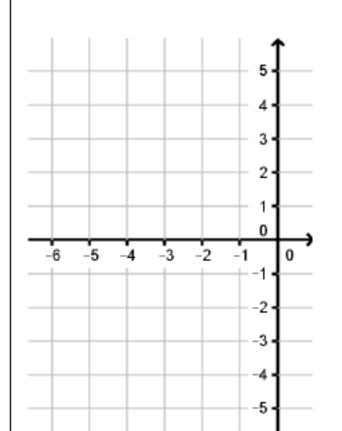
Opens up or down?

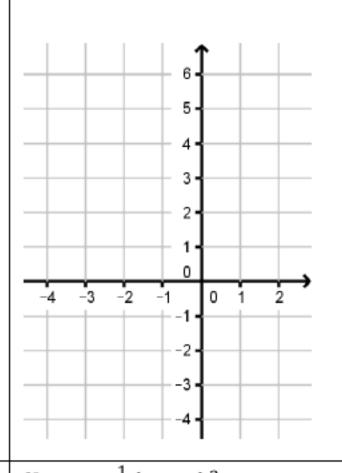
Slope to point one unit from the

vertex is _____.
y-intercept: (0,____)

3] $y = 2(x + 1)^2 - 3$ A xis of Symmetry is $x = _____$ V ertex: $(____, ___)$ Opens up or down? Slope to point one unit from the vertex is $_____$. y-intercept: $(0, ____)$







4] $y = -2(x-2)^2 - 1$

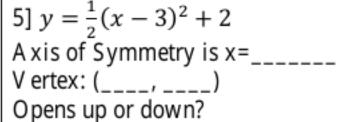
A xis of Symmetry is x=_____

V ertex: (____, ___)

Opens up or down?

Slope to point one unit from the

vertex is _____.
y-intercept: (0,____)



Slope to point one unit from the vertex is _____.

y-intercept: (0,____)

