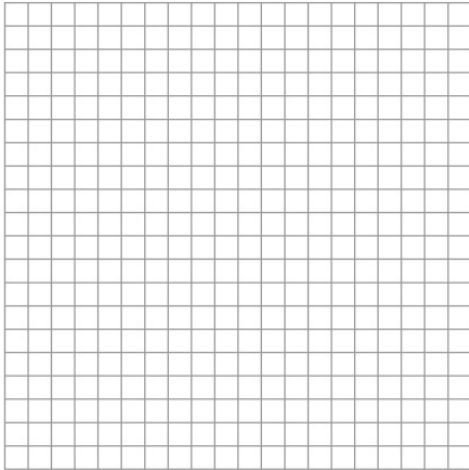


Name : _____

Graphing Quadratics in Vertex Form

Sketch the graph of each function and then write the vertex, axis of symmetry, and if the vertex is minimum or maximum.

① $f(x) = (x + 2)^2 - 1$

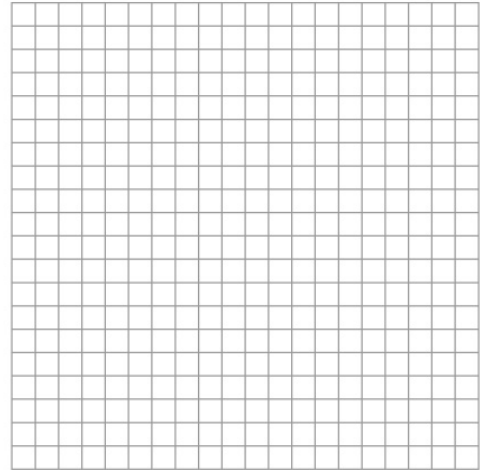


Vertex : _____

Axis of Symmetry : _____

Maximum/Minimum : _____

② $f(x) = -(x - 4)^2 - 4$

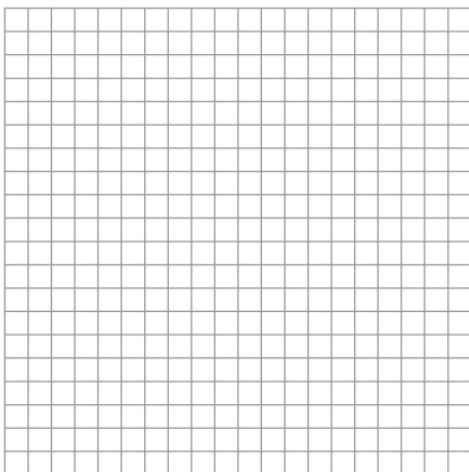


Vertex : _____

Axis of Symmetry : _____

Maximum/Minimum : _____

③ $f(x) = 3(x + 2)^2 - 2$

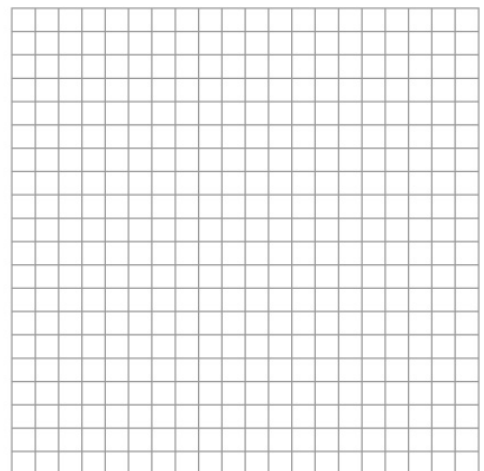


Vertex : _____

Axis of Symmetry : _____

Maximum/Minimum : _____

④ $f(x) = -\frac{1}{5}(x - 5)^2 - 2$



Vertex : _____

Axis of Symmetry : _____

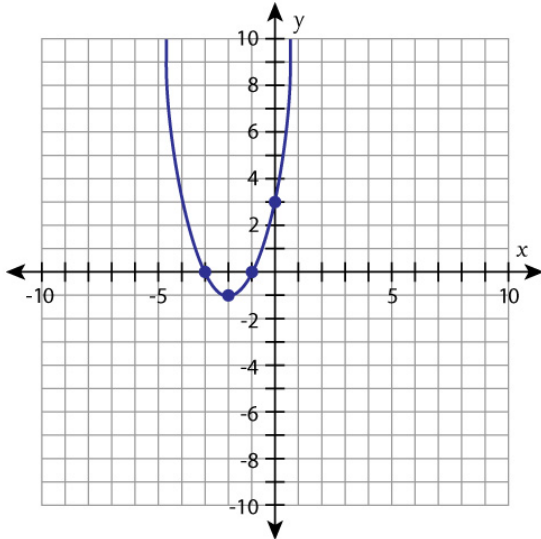
Maximum/Minimum : _____

Name : _____

Graphing Quadratics in Vertex Form

Answers

① $f(x) = (x + 2)^2 - 1$

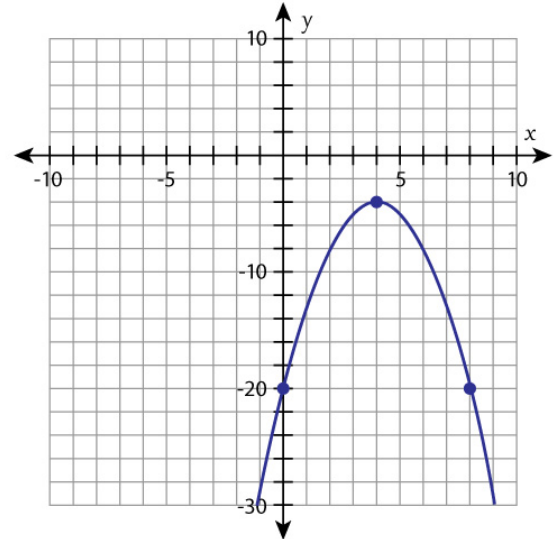


Vertex : $(-2, -1)$

Axis of Symmetry : $x = -2$

Maximum/Minimum : Minimum

② $f(x) = -(x - 4)^2 - 4$

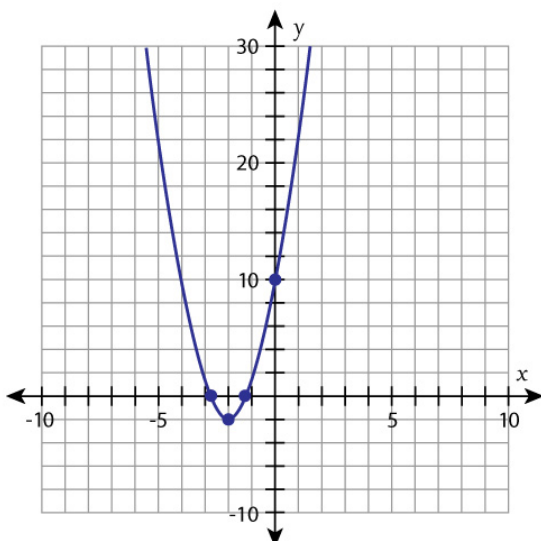


Vertex : $(4, -4)$

Axis of Symmetry : $x = 4$

Maximum/Minimum : Maximum

③ $f(x) = 3(x + 2)^2 - 2$

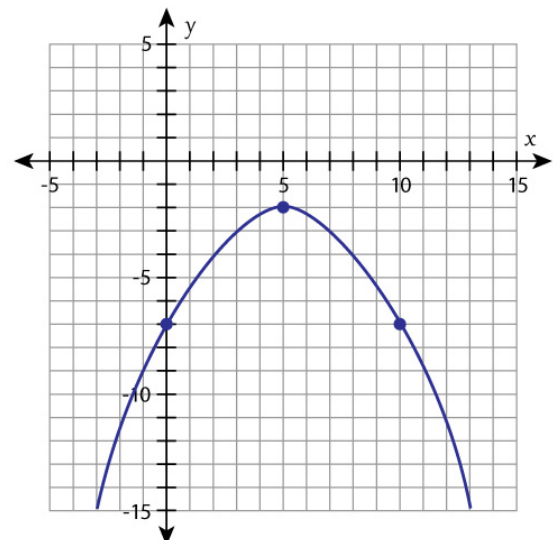


Vertex : $(-2, -2)$

Axis of Symmetry : $x = -2$

Maximum/Minimum : Minimum

④ $f(x) = -\frac{1}{5}(x - 5)^2 - 2$



Vertex : $(5, -2)$

Axis of Symmetry : $x = 5$

Maximum/Minimum : Maximum