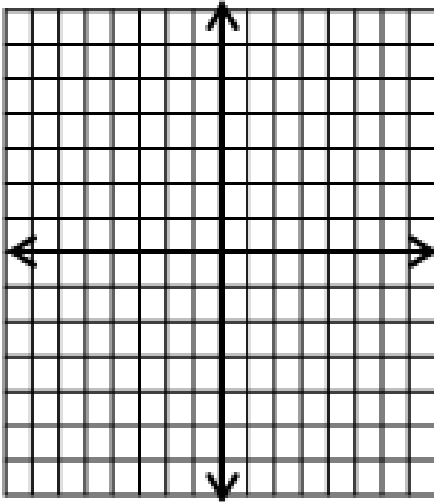


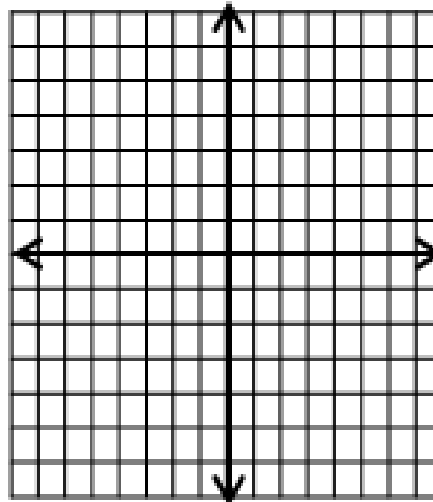
Graphing Quadratic Functions

 Sketch the graph of each function. Identify the vertex and axis of symmetry.

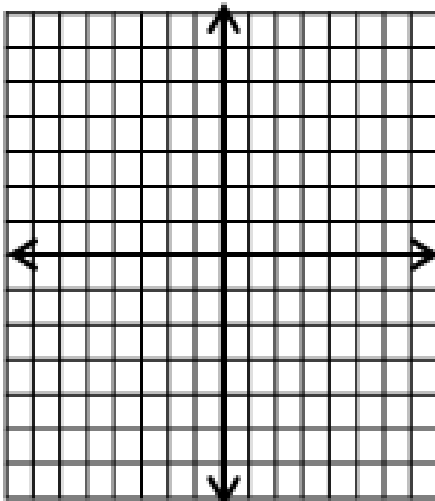
1) $y = 3(x + 1)^2 + 2$



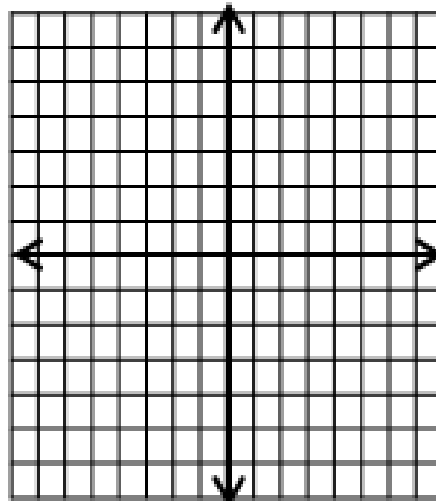
2) $y = -(x - 2)^2 - 4$



3) $y = 2(x - 3)^2 + 8$



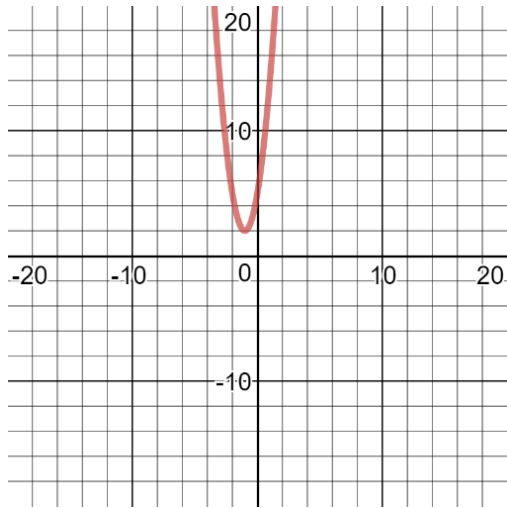
4) $y = x^2 - 8x + 19$



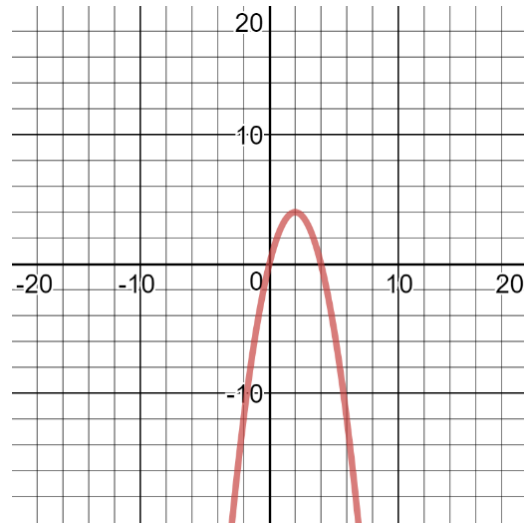
Answers

Graphing quadratic functions

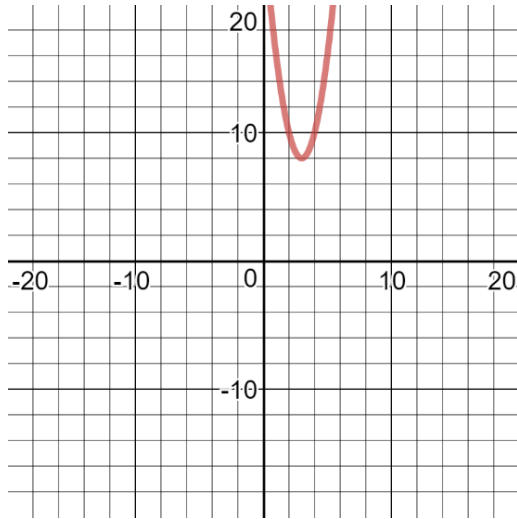
1) $(-1, 2), x = -1$



2) $(2, -4), x = 2$



3) $(3, 8), x = 3$



4) $(4, 3), x = 4$

