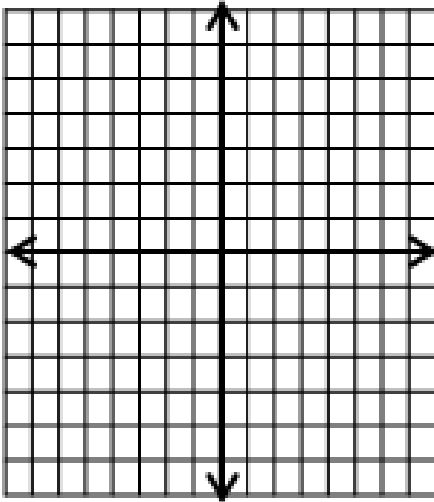


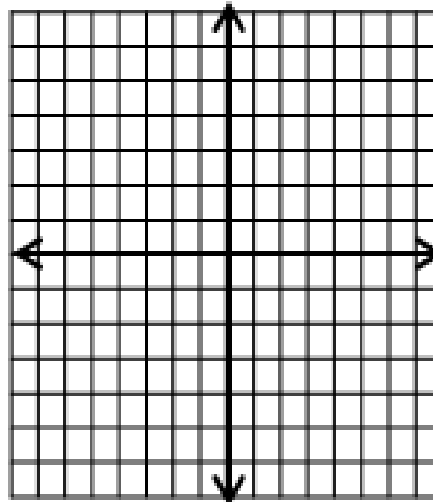
## Graphing Quadratic Functions

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

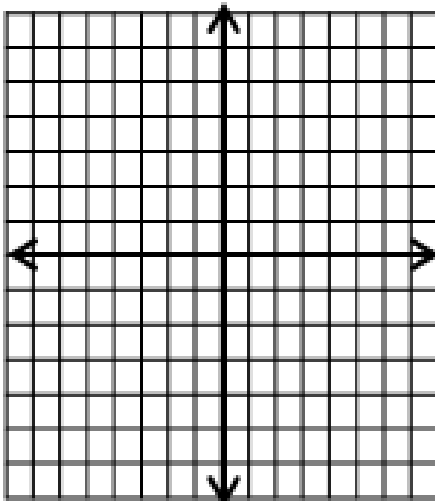
1)  $y = 3(x + 1)^2 + 2$



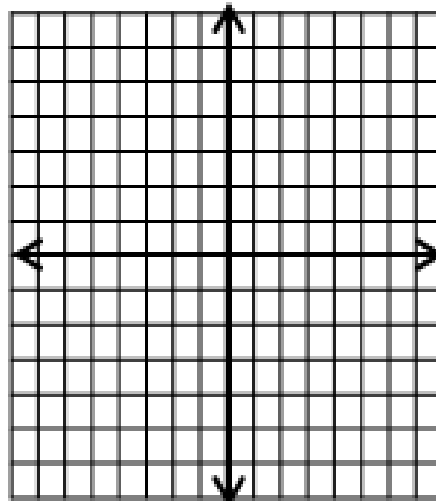
2)  $y = -(x - 2)^2 - 4$



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

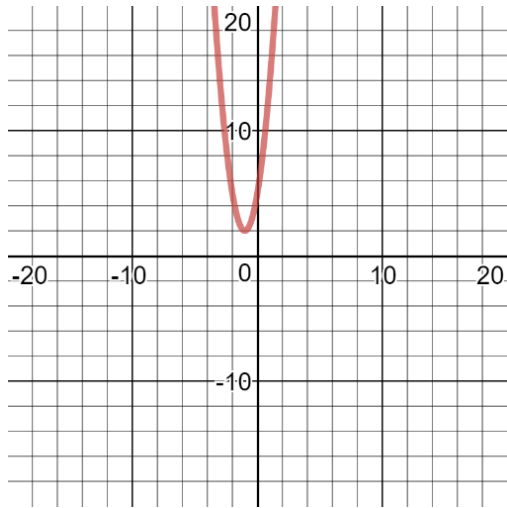


4)  $y = x^2 - 8x + 19$

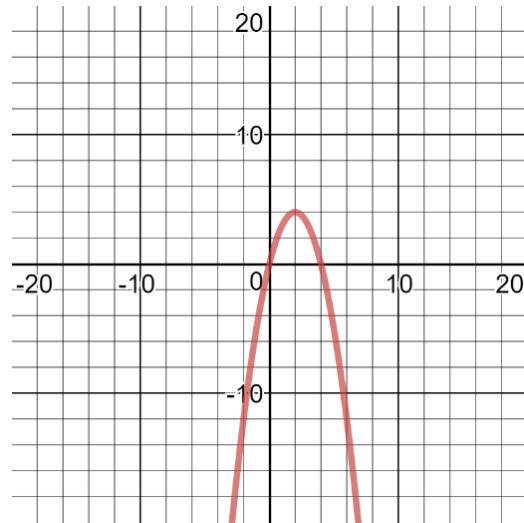


**Answers****Graphing quadratic functions**

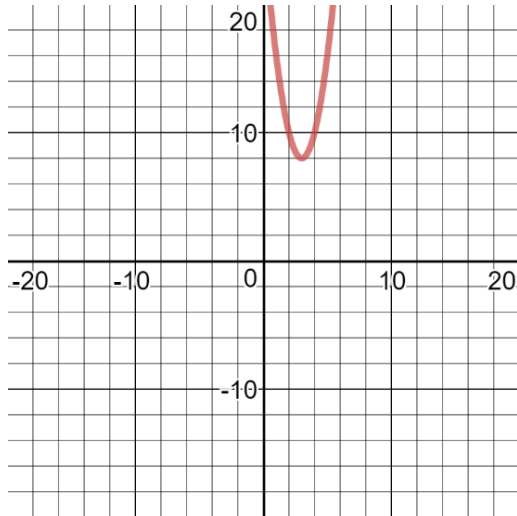
1)  $(-1, 2), x = -1$



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



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



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

