

Quiz 117

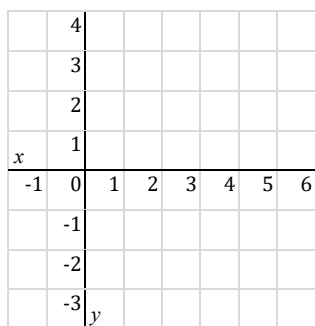
Find the vertex.

1. $y = 4(x - 5)^2 + 3$

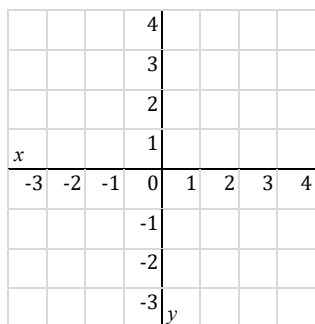
2. $y = -(x + 2)^2 - 9$

Graph by plotting the vertex and one additional point on each side of the vertex. Use the y -intercept when possible.

3. $y = (x - 2)^2 - 3$



4. $y = -4(x + 1)^2 + 2$



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

