

More Vertex Form Practice

For each equation, identify the concavity, the vertex, the axis of symmetry, and the y-intercept. Show your work!

1) $y = -2(x - 7)^2 + 4$

2) $y = 3(x - 5)^2 - 11$

3) $y = (x + 8)^2 + 6$

4) $y = -(x + 3)^2 - 9$

5) $y = -4(x - 8)^2 + 3$

6) $y = 6(x + 11)^2 + 7$

One E practice problem:

Determine the vertex, roots, and y-intercept of the function. Show your work.

$$f(x) = (x + 3)^2 - 36$$

vertex: _____ roots: _____ y-intercept: _____

Axis of symmetry: _____

Work: