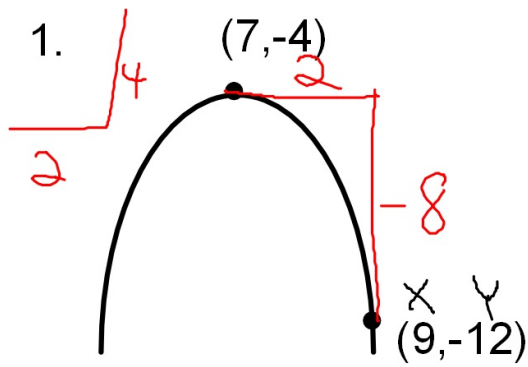


Write the equation of each parabola:

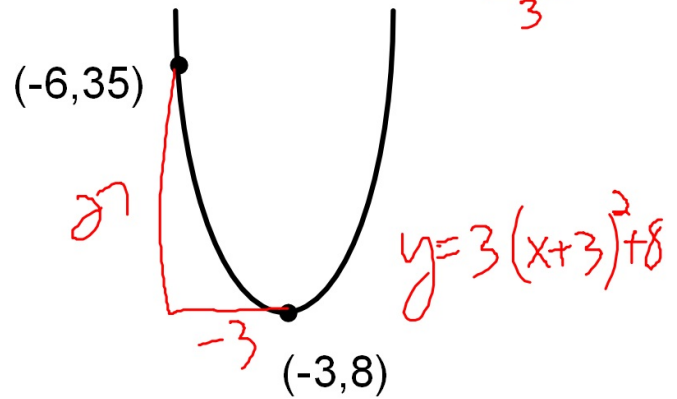


$$y = -2(x - 7)^2 - 4$$

$$-12 = a(9 - 7)^2 - 4 \quad a = -2$$

$$-12 = 4a - 4$$

2.



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

3. State the coordinates of the vertex, the equation for the Line of Symmetry, and the y-intercept.

$$y = -4(x + 6)^2 - 8$$

Vertex: $(-6, -8)$

Los: $X = -6$

y-int: $-4(0 + 6)^2 - 8$
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