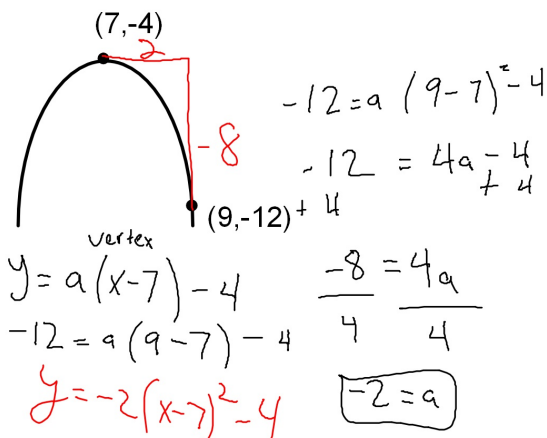
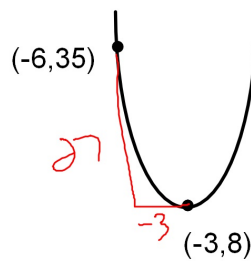


Write the equation of each parabola:

1.



2.



$$\begin{aligned}
 y &= a(x-h)^2 + k \\
 y &= a(x+3)^2 + 8 \\
 35 &= a(-6+3)^2 + 8 \\
 -8 & \quad -8 \\
 35 &= 9a + 8 \\
 -8 & \quad -8 \\
 27 &= 9a \quad a=3
 \end{aligned}$$

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: -152

$$-4(0+6)^2 - 8$$