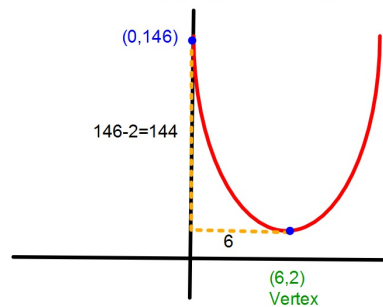


3. Vertex is (6, 2) and the y-intercept is 146



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

Parent Function:

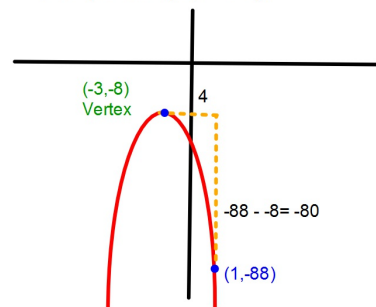
$$6^2 = 36$$

Image:

$$144$$

$$a = \frac{\text{measure on image}}{\text{measure on original}} = \frac{144}{36} = 4$$

1. Vertex is (-3, -8) and it passes through the point (1, -88)



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

Parent Function:

$$4^2 = 16$$

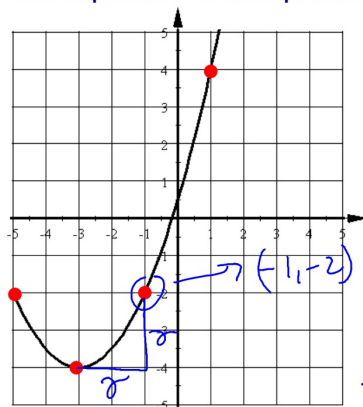
Image:

$$-80$$

$$a = \frac{\text{measure on image}}{\text{measure on original}} = \frac{-80}{16} = -5$$

Write the equation of this parabola in Vertex Form.

2.



Vertex: (-3, -4)

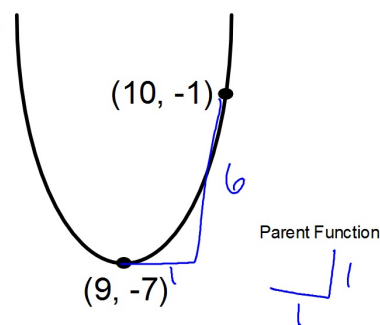
$$y = \frac{1}{2}(x + 3)^2 - 4$$

Parent Function

$$\frac{6}{4} \rightarrow a = \frac{3}{2} = \frac{1}{2}$$

Write the equation of this parabola in Vertex Form.

3.



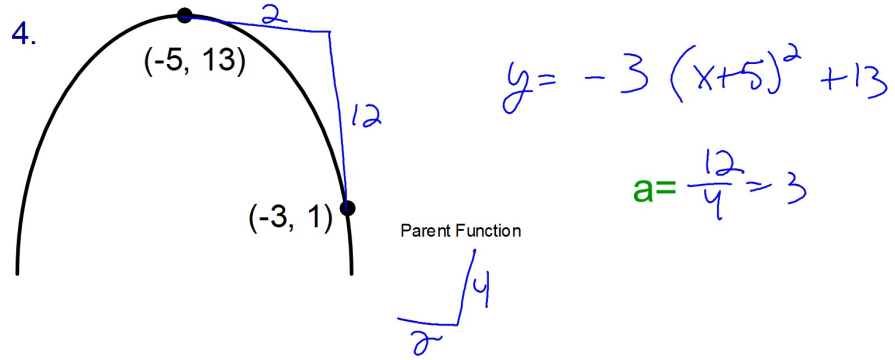
$$y = 6(x - 9)^2 - 7$$

Parent Function

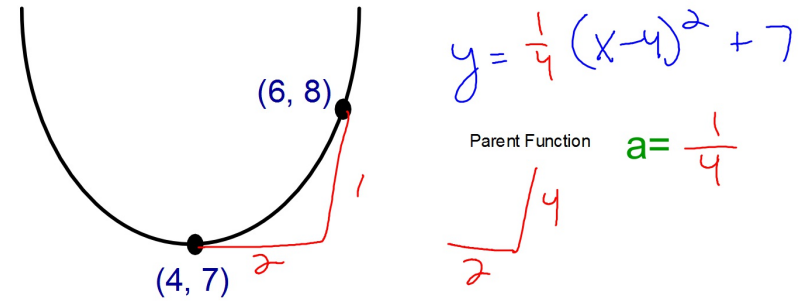
$$1^2 = 1$$

$$a = \frac{6}{1}$$

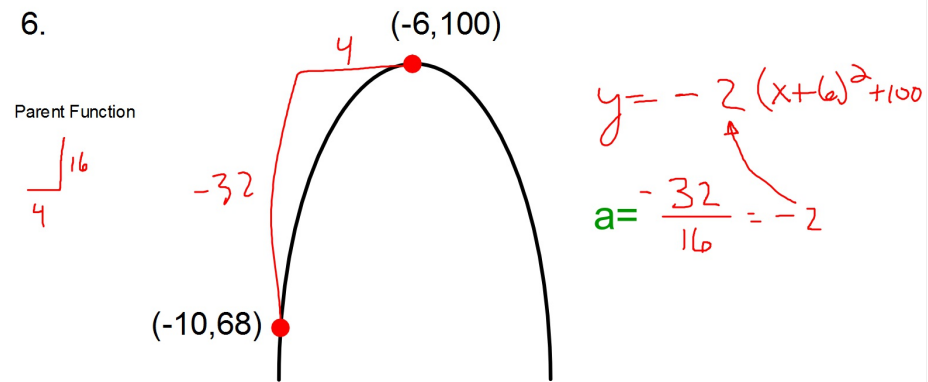
Write the equation of this parabola.



5. Write the equation of this quadratic.



6.



7.

