

Number:

Textbook Section:

Title:

Equations for parabolas (wrap-up—at the end)

1. Analyze and graph $y = \frac{1}{8}x^2$.

2. Analyze and graph $x = -\frac{1}{2}y^2$.

3. Analyze and graph $y = \frac{1}{8}(x-3)^2 + 2$.

4. Analyze and graph $x = -\frac{1}{2}y^2 - 4y - 10$.

5. Find the equation of the parabola with focus at $\left(3, \frac{9}{8}\right)$ and directrix $y = \frac{7}{8}$.