WORKSHEET: PARABOLA

A. Find the opening, focus, directrix, and length of latus rectum of the parabolas and sketch its graph.

1. $y = \frac{1}{2}x^2$

2. $y^2 = -6x$

3. $x^2 + 6y = 0$

B. Find the standard form of the equation of the parabola with its vertex at the origin.
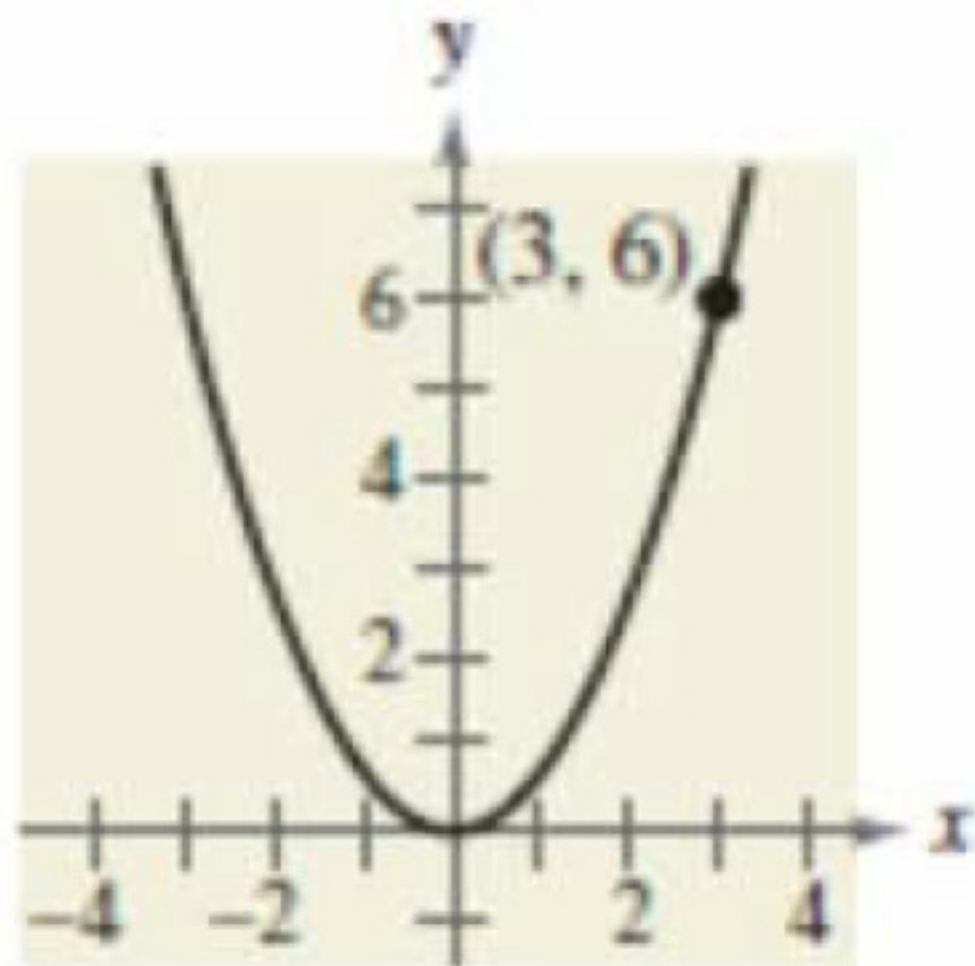
4. Focus: $\left(0, -\frac{3}{2}\right)$

5. Focus: (−2, 0)

6. Directrix: y = −1

7. Directrix: x = 2

8. Horizontal axis and passes through the point (4,6)

9.

10.