CHAPTER 11.2

January 6, 2023

- 1. In the each of the following Exercises 1 to 6, find the coordinates of the focus, axis of the parabola, the equation of the directrix and the length of the latus rectum
 - 1. $y^2 = 2x$
 - 2. $x^2 = 6y$
 - 3. $y^2 = -8x$
 - 4. $x^2 = -16y$
 - 5. $y^2 = 10x$
 - 6. $x^2 = -9y$
- 2. Each of the Exercises 7 to 12, find the equation of the parabola, that satisfies the given conditions:
 - 7 Focus(6,0); directrix x=-6
 - 8 Focus(0,3); directrix y=3
 - 9 Vertex(0,0); Focus(3,0)
 - 10 Vertex(0,0); Focus(-2,0)
 - 11 Vertex(0,0) passing through(2,3) and axis is along x-axis
 - 12 Vertex(0,0) passing through(5,2) symmetric with respect to y-axis