EXERCISE 11.2

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=12x
2. x^2=6y
3. y^2=-8x
4. x^2=-16y
5. y^2=10x
6. x^2=-9y

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