Assignment 2

Conic sections and special curves

- 1. Construct an ellipse when the distance of its focus from the directrix is equal to 50 mm and its eccentricity is 3/4.
- 2. Draw a parabola whose focus is at a distance of 50 mm from the directrix.
- 3. Construct a conic when the distance of its focus from the directrix is equal to 50 mm and its eccentricity is 3/2. Name the curve after plotting it.
- 4. Draw a cycloid generated by a point P on the circumference of a circle of diameter 60 mm when the circle rolls along straight line.
- 5. Draw an involute of a circle of 35 mm diameter.