

Worksheet: Conic Sections (Circles, Ellipses, Parabolas, Hyperbolas)

Karnataka State Board · Class 11 · Mathematics · 4 questions · 13 marks

Name: _____

Date: _____

Score: _____ / 13

Q1. Find the equation of a circle with centre $(2, 3)$ and radius 4. *[2 marks]*

Q2. Find the focus, directrix, and length of latus rectum of $y^2 = 12x$. *[3 marks]*

Q3. Find the equation of the ellipse with foci $(\pm 3, 0)$ and $a = 5$. *[4 marks]*

Q4. For the hyperbola $\frac{x^2}{9} - \frac{y^2}{16} = 1$, find eccentricity, foci, and equations of asymptotes. *[4 marks]*
