

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

CBSE · Class 11 · Mathematics · 4 questions · 13 marks

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|-------------|-------------|-------------------|
| Name: _____ | Date: _____ | Score: _____ / 13 |
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**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  $x^2/9 - y^2/16 = 1$ , find eccentricity, foci, and equations of asymptotes. *[4 marks]*