

Centum Preparation 100 Days plan class 12 Maths

Q.N o.	DAY - 29
170	<p>Example 5.21</p> <p>Find the equation of the ellipse whose eccentricity is $\frac{1}{2}$, one of the foci is $(2, 3)$ and a directrix is $x = 7$. Also find the length of the major and minor axes of the ellipse.</p>
171	<p>Example 5.22</p> <p>Find the foci, vertices and length of major and minor axis of the conic $4x^2 + 36y^2 + 40x - 288y + 532 = 0$.</p>
172	<p>Example 5.23</p> <p>For the ellipse $4x^2 + y^2 + 24x - 2y + 21 = 0$, find the centre, vertices, and the foci. Also prove that the length of latus rectum is 2.</p>
173	<p>Example 5.24</p> <p>Find the equation of the hyperbola with vertices $(0, \pm 4)$ and foci $(0, \pm 6)$.</p>
174	<p>Example 5.26</p> <p>Find the centre, foci, and eccentricity of the hyperbola $11x^2 - 25y^2 - 44x + 50y - 256 = 0$</p>
175	<p>Example 5.27</p> <p>The orbit of Halley's Comet is an ellipse 36.18 astronomical units long and by 9.12 astronomical units wide. Find its eccentricity.</p>