Q.No.	DAY - 31
182	8. Identify the type of conic and find centre, foci, vertices, and directrices of each of the following : (i) $\frac{(x-3)^2}{225}+\frac{(y-4)^2}{289}=1$ (iii) $\frac{(x+3)^2}{225}-\frac{(y-4)^2}{64}=1$ (v) $18x^2+12y^2-144x+48y+120=0$ (vi) $9x^2-y^2-36x-6y+18=0$
183	**Example 5.29** Find the equations of tangent and normal to the parabola $x^2+6x+4y+5=0$ at $(1,-3)$.
184	**Example 5.30** Find the equations of tangent and normal to the ellipse $x^2+4y^2=32$ when $\theta=\frac{\pi}{4}$.
185	**EXERCISE 5.4** 1. Find the equations of the two tangents that can be drawn from $(5,2)$ to the ellipse $2x^2+7y^2=14$.
186	2. Find the equations of tangents to the hyperbola $\frac{x^2}{16}-\frac{y^2}{64}=1$ which are parallel to $10x-3y+9=0$.