Centum Preparation 100 Days plan class 12 Maths

Q.No.	DAY - 32
187	3. Show that the line $x-y+4=0$ is a tangent to the ellipse $x^2+3y^2=12$. Also find the coordinates of the point of contact.
188	4. Find the equation of the tangent to the parabola $y^2=16x$ perpendicular to $2x+2y+3=0$.
189	5. Find the equation of the tangent at $t=2$ to the parabola $y^2=8x$.
190	6. Find the equations of the tangent and normal to hyperbola $12x^2-9y^2=108$ at $\theta=\frac{\pi}{3}$
191	7. Prove that the point of intersection of the tangents at 't_1' and 't_2' on the parabola $y^2=4ax$ is $\left[at_1t_2,\ a\left(t_1+t_2\right)\right]$.
192	8. If the normal at the point 't_1' on the parabola $y^2=4ax$ meets the parabola again at the point 't_2', then prove that $t_2=-\left(t_1+\frac{2}{t_1}\right)$