

Equation of Chord with Midpoint (x_1, y_1) .

The equation of the chord of the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$, whose mid point be (x_1, y_1) is $T = S_1$,

where $T = \frac{xx_1}{a^2} + \frac{yy_1}{b^2} - 1 = 0$, $S_1 = \frac{x_1^2}{a^2} + \frac{y_1^2}{b^2} - 1 = 0$

