

Equation of the Chord of the Parabola which is bisected at a given point.

The equation of the chord at the parabola $y^2 = 4ax$ bisected at the point (x_1, y_1) is given by

$T = S_1$, where $T = yy_1 - 2a(x + x_1)$ and $S_1 = y_1^2 - 4ax_1$. i.e., $yy_1 - 2a(x + x_1) = y_1^2 - 4ax_1$

