$$l = P_0 + t(P_1 - P_0)$$

$$= (x, y) = (x_0, y_0) + t(x_1 - x_0, y_1 - y_0)$$

$$\begin{cases} x = x_0 + t(x_1 - x_0) \\ y = y_0 + t(y_1 - y_0) \end{cases}$$