

GEOM INTERP

Find the tangent line to
 $y = f(x)$ at $P = (x_0, y_0)$.

A picture.

$$\begin{array}{l} \underline{y - y_0 = m(x - x_0)} \\ \underline{\text{point } y_0 = f(x_0)} \\ \underline{\text{slope } m = f'(x_0)} \end{array}$$