

$$\Rightarrow 6 \cdot 3 + c = 4$$

$$\Rightarrow 18 + c = 4$$

$$\Rightarrow c = -14$$

So this tangent line has
equation $y = 6x - 14$.

and a root at.

$$y = 0 \Rightarrow 6x - 14 = 0$$

$$\Rightarrow x = \frac{14}{6} = \frac{7}{3}$$

$$x_1 = x_0 - \frac{x_0^2 - 5}{2 \cdot x_0}$$

$$= 3 - \frac{9 - 5}{6}$$

$$= 3 - \frac{4}{6}$$

$$= 3 - \frac{2}{3} = \frac{9}{3} - \frac{2}{3} = \frac{7}{3}$$



