Trig Derivatives

$$\frac{d \sin x}{dx} =$$

$$\frac{d \cos x}{dx} =$$

$$\frac{d}{dx}(\tan x) = \underline{\hspace{3cm}}$$

$$f(x) = \sec x, \ f'(x) = \underline{\hspace{3cm}}$$

$$g(x) = \csc x, \ g'(x) = \underline{\hspace{3cm}}$$

$$h(x) = \cot x, \ h'(x) = \underline{\hspace{3cm}}$$

Complete the table without using the Quotient Rule. (pg 124)

Function	Rewrite	Differentiate	Simplify
19) $y = \dfrac{x^2 + 2x}{3}$			

Find an equation of the tangent line to the graph of f at the indicated point.

    67) $f(x) = \tan x$ $\left(\frac{\pi}{4}, 1 \right)$