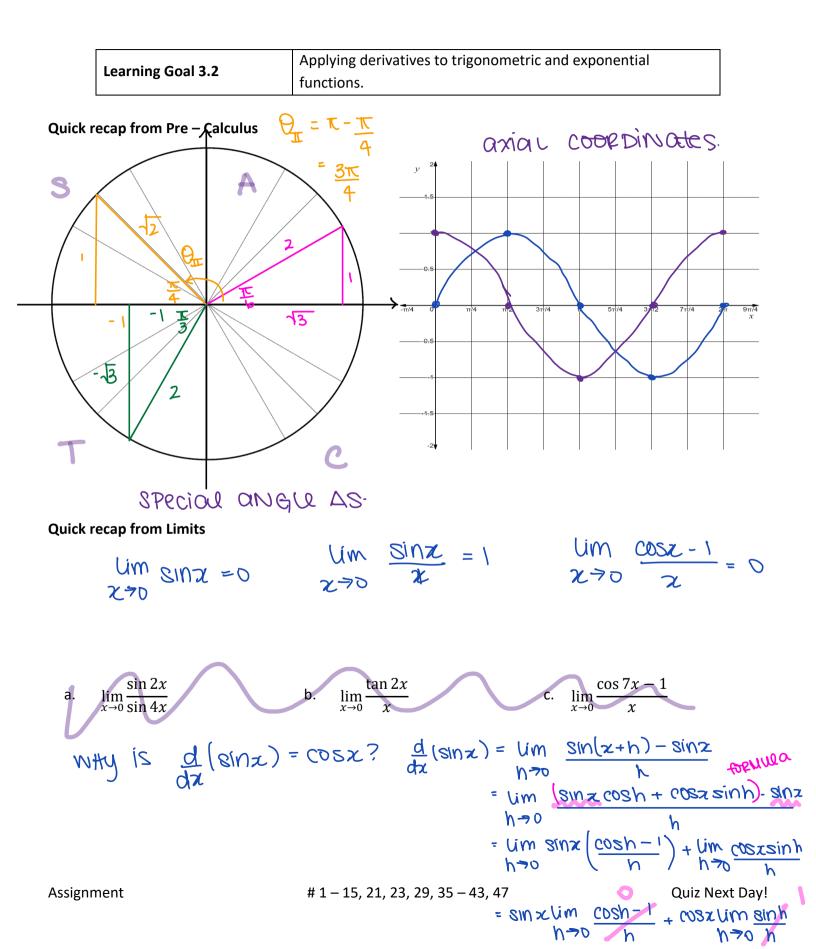
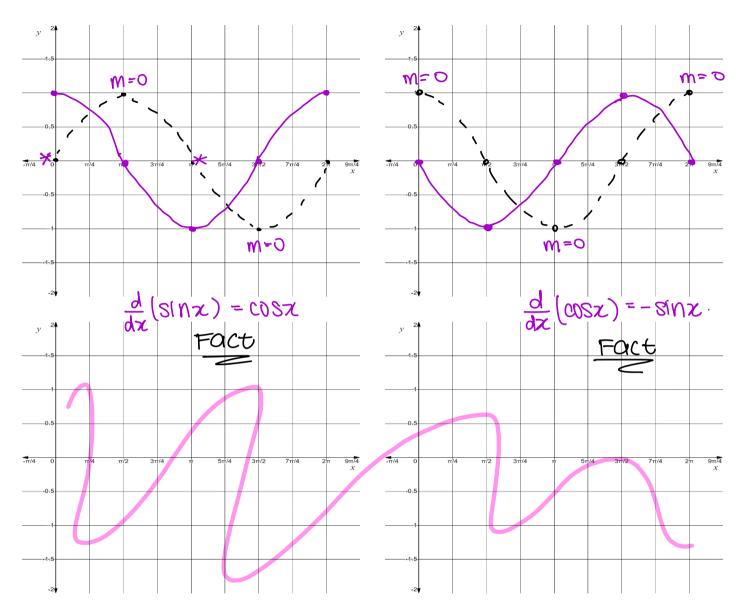
Name: \_\_\_\_\_

Date: \_\_\_\_\_





## The Derivative of Sine and Cosine Graphically



**Example** Use the quotient rule to find the derivative of  $y = \tan x$ . =  $\frac{\sin x}{\cos x}$ 

$$\frac{dy}{dz} = \frac{\cos (\sin z)' - \sin (\cos z)'}{\cos^2 x}$$

$$= \frac{\cos^2 (z + \sin^2 z)}{\cos^2 z}$$

$$= \frac{1}{\cos^2 z}$$

Assignment

= Sec<sup>2</sup>x