Trig Derivatives Quiz

Name:	Due Date:	June 2	2020
rame.	Due Date.	June 2,	, 2020

1. Compute the following limit

$$\lim_{x \to 0} 6x^2 \cdot \cot x \cdot \csc 2x$$

2. Show

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

3. Why does it matter to use radians when computing trig derivatives?

- 4. Evaluate the following
 - (a) Find dy/dx if $x = \tan(\csc^2(y))$

(b) $\int_0^{\pi/2} \frac{\sin x}{(3 + 2\cos x)^2} dx$