MATH 131, Fall 2019   Name: _____

Quiz 1

09/12/19   Section:_____

For full credit you must present a clearly organized solution, showing all supporting calculations.

1. Evaluate the limit
$$\lim_{x \to 0} \left(\frac{x}{\sin x} - 1 \right) \cos \left(\frac{1}{x} \right) \ .$$

You must use the limit laws to justify your limit calculation.

(You can invoke the value of $\lim_{x \to 0} \sin(x)/x$ without proof.)