

Name: _____

QUIZ 3 

MATH 200
January 27, 2022

Directions: Find the limits. Show all steps. Simplify your answer.


1. $\lim_{x \rightarrow 5\pi/6} \tan(x) =$

2. $\lim_{x \rightarrow 0} \frac{(3x - 6) \sin(x)}{x^2 - 2x} =$

3. $\lim_{x \rightarrow 0} \sin^{-1} \left(\frac{\sin(x)}{x} \right) =$

4. State the intervals on which the function $f(x) = \frac{x}{e^x - 3}$ is continuous.

Name: _____

QUIZ 3 

MATH 200
January 27, 2022

Directions: Find the limits. Show all steps. Simplify your answer.

1. $\lim_{x \rightarrow \frac{7\pi}{4}} \sec(x) =$

2. $\lim_{x \rightarrow 0} \frac{6 \sin(x)}{x^3 + 7x} =$

3. $\lim_{x \rightarrow 2} \tan^{-1} \left(\frac{x^2 - 3x + 2}{x^2 - 5x + 6} \right) =$

4. State the intervals on which the function $f(x) = \frac{\sin(x)}{x}$ is continuous.