

Name: _____

1.
$$\lim_{x \rightarrow 1} \frac{\ln|x|}{x-1} =$$

2.
$$\lim_{x \rightarrow \infty} \frac{1+e^x}{e^x-1} =$$

3.
$$\lim_{x \rightarrow \pi/2} \left(\frac{\pi}{2} - x \right) \sec(x) =$$

4.
$$\lim_{x \rightarrow 0} \left(\frac{1}{x} - \frac{1}{e^x-1} \right) =$$

Name: _____

QUIZ 20 ♣

MATH 200
November 17, 2021

1. $\lim_{x \rightarrow \pi} \frac{\cos(x) + 1}{(x - \pi)^2} =$

2. $\lim_{x \rightarrow 0} \frac{4 + 2 \ln |x|}{5 - 3 \ln |x|} =$

3. $\lim_{x \rightarrow \infty} x e^{-x} =$

4. $\lim_{x \rightarrow \infty} (\ln(x) - \ln(x + 1)) =$

Name: _____

1.
$$\lim_{x \rightarrow 1} \frac{\ln |x|}{4x - x^2 - 3} =$$

2.
$$\lim_{x \rightarrow \pi/2} \frac{1 + \tan(x)}{1 - 3 \tan(x)} =$$

3.
$$\lim_{x \rightarrow \infty} x \sin\left(\frac{1}{4x}\right) =$$

4.
$$\lim_{x \rightarrow \infty} (\ln(x) - \ln(x+1)) =$$

Name: _____

QUIZ 20 ♠

MATH 200
November 17, 2021

1. $\lim_{x \rightarrow 1} \frac{e^x - e}{x^2 - 1} =$

2. $\lim_{x \rightarrow \infty} \frac{\ln|x|}{\sqrt{x}} =$

3. $\lim_{x \rightarrow 0} x \csc(x) =$

4. $\lim_{x \rightarrow \infty} \left(2 \ln(x) - \ln(x^2 + 1) \right) =$