

Name: _____

QUIZ 20 ♡

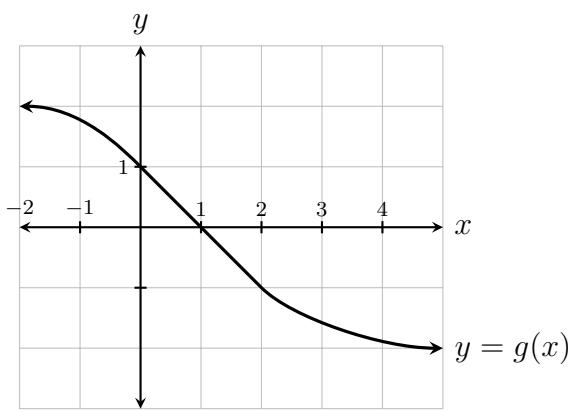
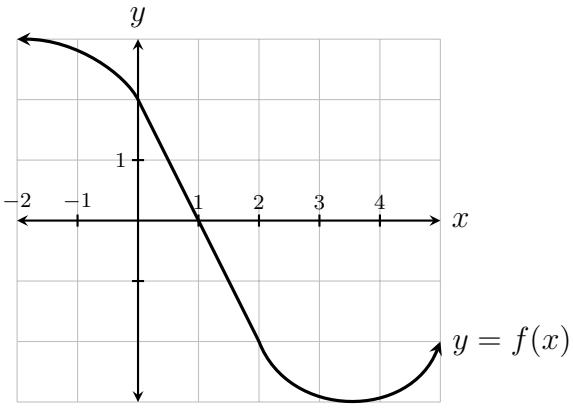
MATH 200
November 16, 2022

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

2. $\lim_{x \rightarrow 0} \frac{2 - \ln|x^2|}{1 + \ln|x^3|} =$

3. $\lim_{x \rightarrow 0} x^2 \ln|x| =$

4. Given the functions
- $f(x)$
- and
- $g(x)$
- graphed below, find
- $\lim_{x \rightarrow 1} \frac{f(x)}{g(x)}$



Name: _____

QUIZ 20 ♣

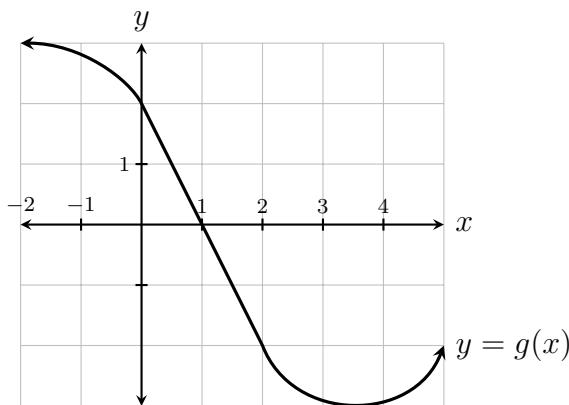
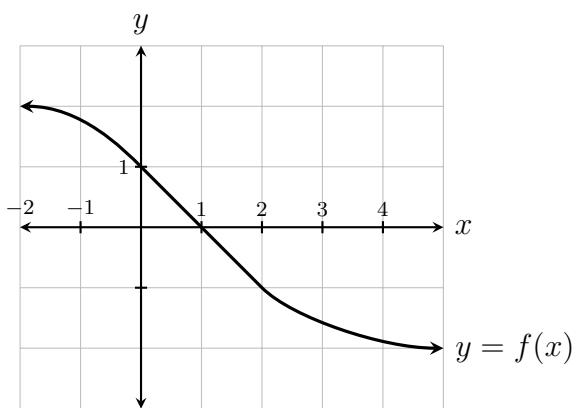
MATH 200
November 16, 2022

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

2. $\lim_{x \rightarrow 0^+} \sin(x) \ln(x) =$

3. $\lim_{x \rightarrow \infty} \frac{5x^2 + e^x}{x^2 - 6 + 5e^x} =$

4. Given the functions
- $f(x)$
- and
- $g(x)$
- graphed below, find
- $\lim_{x \rightarrow 1} \frac{f(x)}{g(x)}$



Name: _____

QUIZ 20 ♦

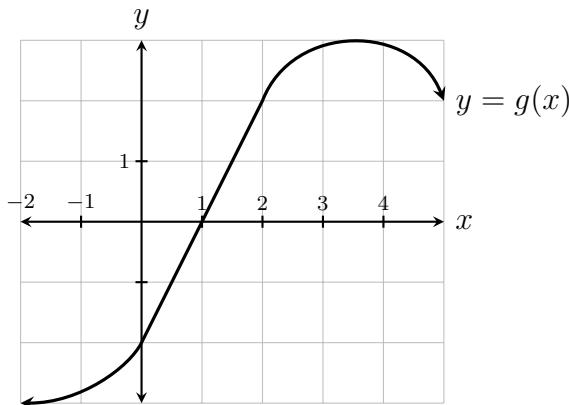
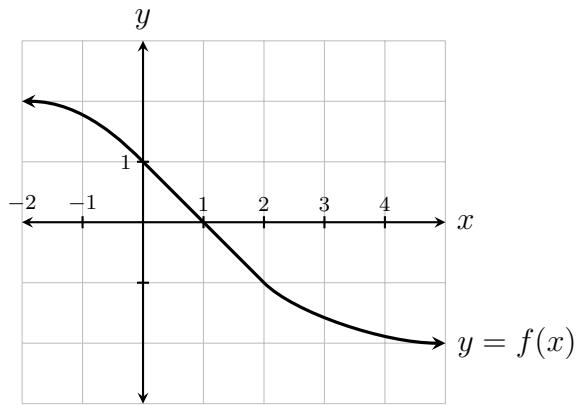
MATH 200
November 16, 2022

1. $\lim_{x \rightarrow 1} \frac{\sin(\pi x - \pi)}{4 - 4x} =$

2. $\lim_{x \rightarrow \infty} xe^{-x} =$

3. $\lim_{x \rightarrow \infty} \frac{e^x}{1 + \ln(x)} =$

4. Given the functions
- $f(x)$
- and
- $g(x)$
- graphed below, find
- $\lim_{x \rightarrow 1} \frac{f(x)}{g(x)}$



Name: _____

QUIZ 20 ♠

MATH 200
November 16, 2022

1. $\lim_{x \rightarrow 0} \frac{\cos(x) - 1}{x^2} =$

2. $\lim_{x \rightarrow 0} x \ln|x| =$

3. $\lim_{x \rightarrow \infty} \frac{\ln(x)}{e^x} =$

4. Given the functions
- $f(x)$
- and
- $g(x)$
- graphed below, find
- $\lim_{x \rightarrow 1} \frac{f(x)}{g(x)}$

