

Name: _____

1. Find using any appropriate method: $\lim_{x \rightarrow \infty} (e^x - 1)^{1/x} =$

2. $\int (x^{-1} + 1 + x + x^2) dx =$

3. $\int (\sqrt{x} + \sin(x)) dx =$

4. $\int (e^x + e^2) dx =$

Name: _____

1. Find using any appropriate method: $\lim_{x \rightarrow 0^+} (e^x - 1)^{1/x} =$

2. $\int (x^6 + x^{1/2} + x + 2) dx =$

3. $\int \left(\frac{1}{x} + \frac{1}{x^2} \right) dx =$

4. $\int (2e^x + \sec^2(x)) dx =$

Name: _____

QUIZ 21 \diamond

MATH 200
November 28, 2022

1. Find using any appropriate method: $\lim_{x \rightarrow \infty} (e^x)^{1/(x+1)} =$

2. $\int (3x^2 + 2 + 3x) dx =$

3. $\int \left(e^x + \frac{1}{e} \right) dx =$

4. $\int \frac{2}{1+x^2} dx =$

Name: _____

1. Find using any appropriate method: $\lim_{x \rightarrow 0} (x^2 + 1)^{1/x} =$

2. $\int (20x^4 - x^{-1} + x^{-2}) dx =$

3. $\int (e + e^x) dx =$

4. $\int (\sqrt{x} + \cos(x)) dx =$