

---

Name: \_\_\_\_\_

1.  $\lim_{x \rightarrow \infty} (3x + 1)^{1/x}$


2.  $\int (2x^7 - x + 4e^x) dx =$

3.  $\int (5 + \sec^2(x)) dx =$

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

---

Name: \_\_\_\_\_

QUIZ 21 

MATH 200  
November 12, 2024

---

1.  $\lim_{x \rightarrow 0^+} (3x + 1)^{1/x}$

2.  $\int \sqrt{x} \, dx =$

3.  $\int (e^x - 2 + \sec(x) \tan(x)) \, dx =$

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