

Math 181 Quiz 3 Version A

1. Use the definition of limit in terms of δ and ε to explain why $\lim_{x \rightarrow 1} 3x + 5 = 8$.

2. Use the limit definition of derivative to explain why $f'(x) = \frac{-1}{x^2}$ when $f(x) = \frac{1}{x}$.