

Math 181 Quiz 4 Version C

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

2. Use the limit definition of derivative to explain why $w'(x) = f'(x)g(x) + f(x)g'(x)$ when $w(x) = f(x)g(x)$.