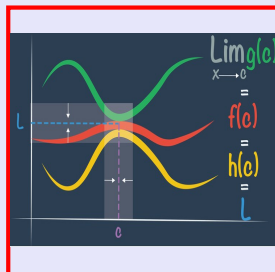# Math 261

Fall 2022

Lecture 15

Calculus I   Name: _____

Class Quiz 4   Signature: _____

No Work ⇔ No Points

Be Neat , Organized & Show Detailed Work

1. (6 points) Evaluate: $\displaystyle\lim_{x\to-\infty} \frac{2x}{\sqrt{25x^2 + 10x}}$

1. _____

2. (6 points) For $\epsilon = 0.2$, find $\delta > 0$ such that $\displaystyle\lim_{x\to0} \sqrt[3]{x} = 0$.

2. _____

3. (8 points) Find the first derivative of the function $f(x) = x^2 - 4x + 3$ by using the definition of derivative.

3. _____