

Name:

ID #:

Section 19

Serial #:

1. Show that the equation $e^{-x} = 2 - x$ has at least one real root.

2. Find a number $\delta > 0$ for $\varepsilon = 0.1$ such that $\lim_{x \rightarrow -1} \sqrt[3]{x} = -1$. Explain.

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Quiz# 1

Name:

ID #:

Section 33

Serial #:

1. Compute the limit (if exists!) $\lim_{x \rightarrow 3.6} \left[1 - \frac{10}{3}x \right]$. Explain.

2. Compute the limit (if exists!) $\lim_{x \rightarrow -\frac{2}{3}^+} \frac{|3x^2 - x - 2|}{x + \frac{2}{3}}$. Explain.

3. Compute the limit (if exists!) $\lim_{x \rightarrow 4} \frac{x^2 - 16}{2 - \sqrt{x}}$. Explain

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Quiz# 1

Name:

ID #:

Section 36

Serial #:

1. Show that $\lim_{x \rightarrow c} (b - ax) = b - ac$ for any real number a , b , or c .

2. If $f(x) = \begin{cases} \frac{ax^2 - 5x - 3}{x - 3} & , x \neq 3 \\ 7 & , x = 3 \end{cases}$ is continuous, then find the value of a . Explain.

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