

Quiz# 1

Name: _____ ID #: _____ Section #: _____ Serial #: _____

Q1. (6 points)

Using the definition of limit, show that $\lim_{x \rightarrow -1} \frac{1}{4} \left(x - \frac{20}{3} \right) = -\frac{23}{12}$.

Q2. (4 points)

Find $\lim_{x \rightarrow 1} \frac{\frac{3}{x} - 3}{1-x}$ (if exists).

With My Best Wishes

Quiz# 1

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Q1. (5 points)

Can you find a number $c \in (-3, 3)$ such that $\frac{x^2 - 3x - 10}{8 + 2x - x^2} = -\frac{7}{6}$? Why? Or why not?

Q2. (5 points)

Find the constant c such that $f(x) = \begin{cases} c - x^2, & x \leq 2 \\ cx - 1, & x > 2 \end{cases}$ is continuous at $x = 2$.

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