Quiz 4 Key — MA161 — September 7, 2018

Alden Bradford

Min	Mean	Max
8	17	20

1. (8 points) Evaluate the limit, if it exists.

$$\lim_{x \to 5} \frac{(x-4)(x-2)}{x-5}$$

The limit does not exist.

2. (12 points) Find a value for the constant c that makes $f(x)$ continuous for all values of x.

$$f(x) = \begin{cases} 6 & \text{if } x = 9 \\ \dfrac{x+c}{\sqrt{x}-3} & \text{if } x \neq 9 \end{cases}$$

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NOTE: this problem appeared on the final exam in the fall of 2016.