

Name: _____

QUIZ 5 

MATH 200
September 7, 2023


Directions: Show all steps (within reason). Simplify your answer.

1. This problem concerns the function $f(x) = \frac{3}{x-2}$. Do **either** (a) or (b) below. (Your choice.)

(a) Use a limit definition of the derivative to find $f'(x)$. Then use your answer to find $f'(4)$.

(b) Use a limit definition of the derivative at a point to find $f'(4)$.

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Directions: Show all steps (within reason). Simplify your answer.

1. This problem concerns the function $f(x) = \sqrt{x+9}$. Do **either** (a) or (b) below. (Your choice.)
 - (a) Use a limit definition of the derivative to find $f'(x)$. Then use your answer to find $f'(16)$.
 - (b) Use a limit definition of the derivative at a point to find $f'(16)$.