

NAME:

MTH 132, MSU, 10/5/2018.

Quiz 5

1. [2 pts.] $\lim_{x \rightarrow 7} \frac{3x - 9}{x^2 - 10x + 21}$

2. [2 pts.] $\lim_{x \rightarrow 1} \frac{x^2 + 7x - 8}{x^2 - x}$

3. [2 pts.] $\lim_{x \rightarrow 1} \frac{x^2 - 1}{|x - 1|}$

4. [4pts.] Find the derivative of $f(x) = \sqrt{x-1}$ using the definition of the derivative.