Name:
Directions: Closed book, closed notes, no calculators.
By submitting this quiz you affirm that you agree with this statement: On my honor, I have neither given nor received unauthorized aid on this assignment, and I pledge that I am in compliance with the VCU Honor System.

1. (20 points) Use the limit definition $f^{\prime}(x)=\lim _{w \rightarrow x} \frac{f(w)-f(x)}{w-x}$ to find the derivative of $f(x)=\frac{1}{3 x-1}$.

Please present your work in a linear, organized fashion. Show all steps.

