

September 10, 2020

MAC 2311
Quiz 1

Remember to show all of your work.

Problem 1. (5 points)

Let $\lim_{x \rightarrow a} f(x) = 4$, $\lim_{x \rightarrow a} g(x) = -1$, and $\lim_{x \rightarrow a} h(x) = 5$. Calculate $\lim_{x \rightarrow a} \left[\frac{(h(x))^2 - 3f(x)}{g(x)} \right]$.

Problem 2. (5 points)

Evaluate $\lim_{x \rightarrow 3} \left[\frac{x^2 + 5}{x^2 - 6x + 9} \right]$.