

Math151 - Calculus I - Winter 2005

Quiz #1, January 17, 2005

In the following problems you are required to show all your work and provide the necessary explanations everywhere to get the full credit.

1. Find the natural domain of the function $f(x) = \sqrt{2x^2 - 4x}$.

2. Find $\lim_{x \rightarrow -3^+} \frac{\sqrt{x+5}}{x+3}$.

3. Find $\lim_{x \rightarrow -\infty} \frac{-x^3 + 20x - 3}{x^2 + x - 5}$.