

Math 101-172-Sec.4 -Quiz #2

Name:

ID:

SR:

Question1: Use the $\delta - \varepsilon$ definition to show that $\lim_{x \rightarrow 4} (9 - 3x) = -3$. Find δ if $\varepsilon = 0.3$.

Question2: Use the intermediate value theorem to show that $x^x = 2$ has a real solution.

Question3. Find the horizontal asymptotes for $f(x) = \frac{x-1}{\sqrt{x^2-1}}$