Math 131 - Quiz 3

Name _____

September 6, 2023

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (10 points) Evaluate each limit analytically. Show all work.

   (a) $\displaystyle\lim_{x\to 2} \frac{x^3 - x^2 - 2x}{x^2 + 2x - 8}$

   (b) $\displaystyle\lim_{x\to 9} \frac{x - 9}{3 - \sqrt{x}}$

   (c) $\displaystyle\lim_{w\to -2} \frac{(w+3)^2 - w^2 + 3}{w + 2}$