KFUPM **QUIZ (1a)** **MATH 101-172**

Name:_____S.ID:_____Sec.( ) Ser.# ( )

Q1) Use a graph to find a number δ such that if

$$|x-1| < \delta \quad then \quad |x^2-1| < 0.44$$

Q2) Find the limit, if it exists. If the limit does not exist, explain why.

$a. \lim_{x\to 1} \frac{x^3-1}{x-1}$ $b. \lim_{x\to 2} \frac{2-|x|}{2-x}$.