

DEPARTMENT OF MATHEMATICAL SCIENCES

MATH 101 Calculus I Term 051

QUIZ # 1

Name _____ ID # _____

Q1) Sketch a possible graph

a) $\lim_{x \rightarrow 0^-} f(x) = +\infty$, $\lim_{x \rightarrow 0^+} f(x) = -\infty$

b) $\lim_{x \rightarrow -\infty} f(x) = 0$, $\lim_{x \rightarrow \infty} f(x) = 2$

c) $f(0) = 0$

Also write answers to following

Horizontal asymptote(s) are:

Vertical asymptote(s) are:

Q2) Find $\lim_{x \rightarrow 0} \frac{5x}{\sqrt{2x+9}-3}$