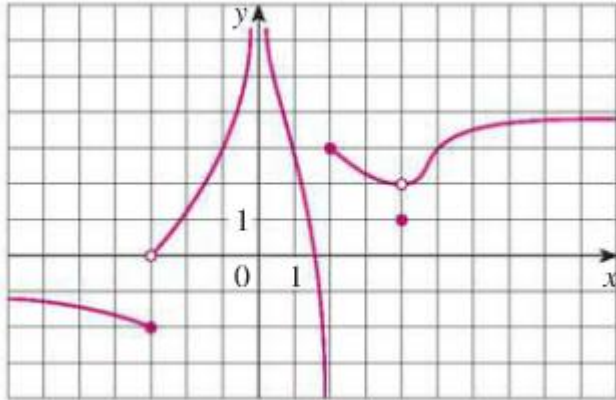


Math 101 (Term 162) - Quiz 1

Student Name _____ Student ID: _____

Exercise 1

The graph of the function $f(x)$ is given below:



Determine the following limits:

(a) $\lim_{x \rightarrow -3^+} f(x) =$

(b) $\lim_{x \rightarrow 0} f(x) =$

(c) $\lim_{x \rightarrow 2} f(x) =$

(d) $\lim_{x \rightarrow 4} f(x) =$

Exercise 2

Determine $\lim_{x \rightarrow -4} \frac{2x+8}{|x+4|} =$

Exercise 3

Find δ graphically such that $|x - a| < \delta \Rightarrow |f(x) - L| < \epsilon$ for $(x) = x^3$; $a = 2$; $L = 8$; $\epsilon = 1$.