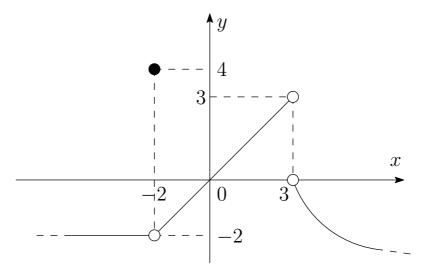
## Engineering Calculus I - MAC 2281 - Section 002 $\label{eq:QUIZI} \ensuremath{\mathbf{QUIZ}\ I}$

First Name:

Last Name:

## **1.** (5 points)

Given below is the graph of a function f.



Compute the following quantities. If a quantity does not exist or is undefined, **explain why**.

• 
$$f(-2) =$$
 •  $f(3) =$ 

• 
$$\lim_{x \to -2^+} f(x) =$$
 •  $\lim_{x \to 3^+} f(x) =$ 

• 
$$\lim_{x \to -2^{-}} f(x) =$$
 •  $\lim_{x \to 3^{-}} f(x) =$ 

• 
$$\lim_{x \to -2} f(x) =$$
 •  $\lim_{x \to 3} f(x) =$ 

## **2.** (5 points)

Sketch the graph of a function f that satisfies **all** the following conditions:

•  $\lim_{x \to 1^{-}} f(x) = 3$ , •  $\lim_{x \to 1^{+}} f(x) = -2$ , • f(1) = -5, •  $\lim_{x \to -4} f(x) = 1$ .

Make sure that your graph is the graph of a function, i.e., that it passes the vertical line test.

