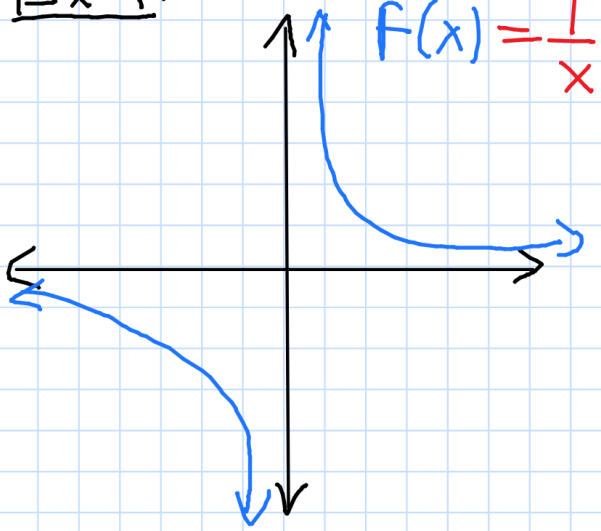
MA 16010 Lesson 1: Finding Limits Graphically

Ex 1:



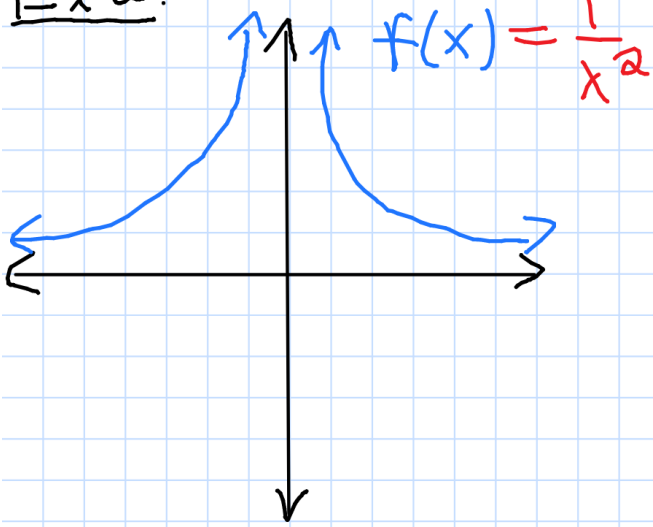
(a) $\lim_{x \to 0^-} f(x) =$ _____

(b) $\lim_{x \to 0^+} f(x) =$ _____

(c) $\lim_{x \to 0} f(x) =$ _____

(d) $f(0) =$ _____

Ex 2:



(a) $\lim_{x \to 0^-} f(x) =$ _____

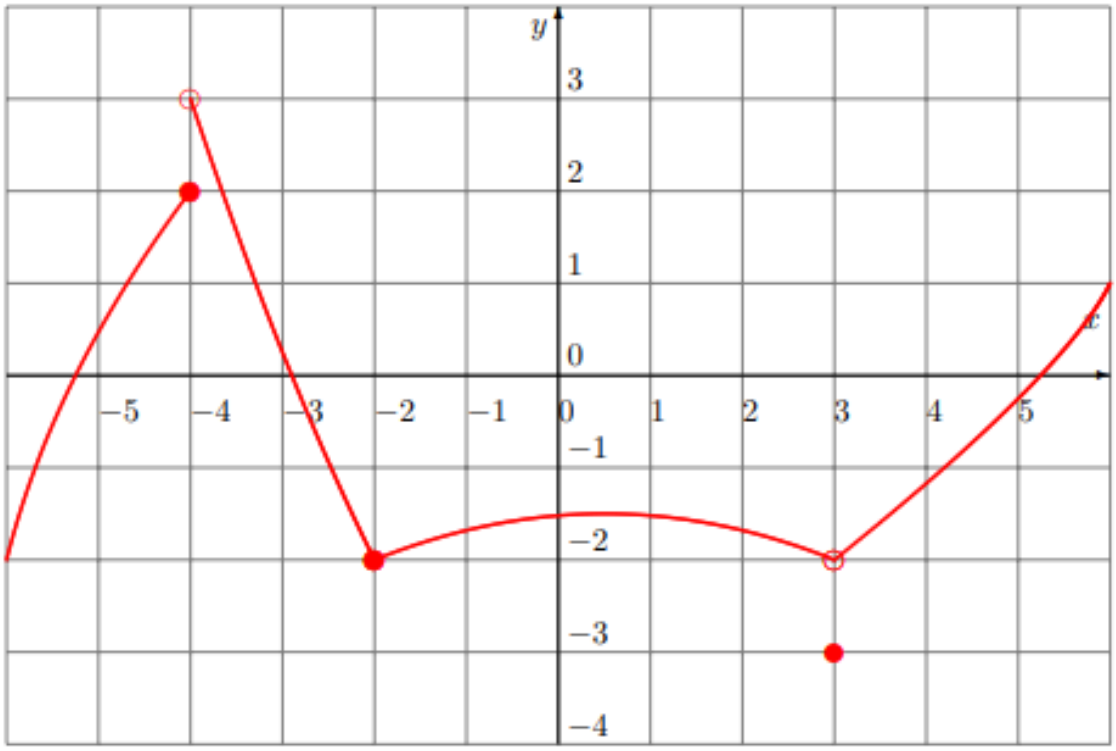
(b) $\lim_{x \to 0^+} f(x) =$ _____

(c) $\lim_{x \to 0} f(x) =$ _____

(d) $f(0) =$ _____

Example 3 (From Worksheet)

3. Consider the following function defined by its graph:



Find the following limits:

A) $\lim_{x\to -4^-} f(x) =$

B) $\lim_{x\to -4^+} f(x) =$

C) $\lim_{x\to -4} f(x) =$

D) $f(-4) =$

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

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

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

H) $f(-2) =$

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

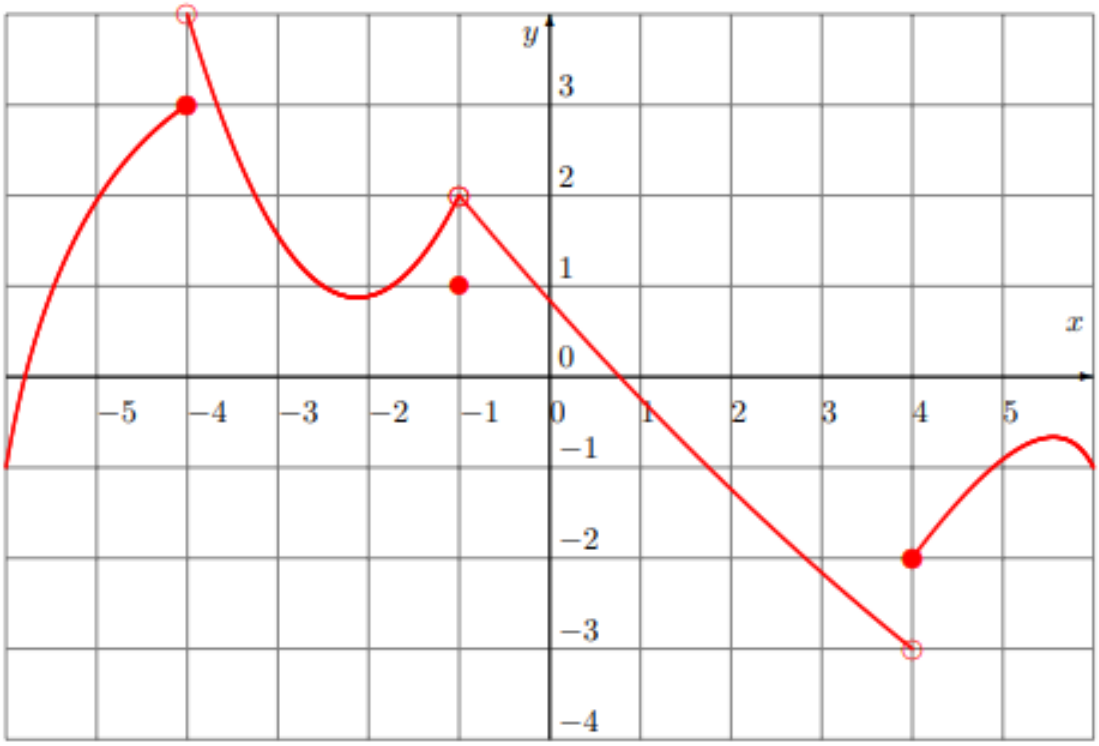
J) $\lim_{x\to 3^+} f(x) =$

K) $\lim_{x\to 3} f(x) =$

L) $f(3) =$

Example 1 (From Worksheet)

1. Consider the following function defined by its graph:



Find the following limits:

A) $\lim_{x\to -4^-} f(x) =$

B) $\lim_{x\to -4^+} f(x) =$

C) $\lim_{x\to -4} f(x) =$

D) $f(-4) =$

E) $\lim_{x\to -1^-} f(x) =$

F) $\lim_{x\to -1^+} f(x) =$

G) $\lim_{x\to -1} f(x) =$

H) $f(-1) =$

I) $\lim_{x\to 4^-} f(x) =$

J) $\lim_{x\to 4^+} f(x) =$

K) $\lim_{x\to 4} f(x) =$

L) $f(4) =$