

Finding Limits Using Tables

1-4. Complete each table to help you find the limit of each function.

1. $\lim_{x \rightarrow 2} 4x - 1$

x	1.8	1.9	2	2.1	2.2
$f(x)$					

2. $\lim_{x \rightarrow 3} \frac{1}{x^2}$

x	2.8	2.9	3	3.1	3.2
$f(x)$					

3. $\lim_{x \rightarrow -1} \frac{x^2 - 1}{x + 1}$

x	-1.2	-1.1	-1	-0.9	-0.8
$f(x)$					

4. $\lim_{x \rightarrow 4} \frac{1}{x - 4}$

x	3.9	3.95	4	4.05	4.1
$f(x)$					

Finding Limits Using Graphs

5. Use the graph at the right to find the following:

$\lim_{x \rightarrow -5^-} f(x)$

$\lim_{x \rightarrow 2^-} f(x)$

$\lim_{x \rightarrow 6^-} f(x)$

$\lim_{x \rightarrow -5^+} f(x)$

$\lim_{x \rightarrow 2^+} f(x)$

$\lim_{x \rightarrow 6^+} f(x)$

$\lim_{x \rightarrow -5} f(x)$

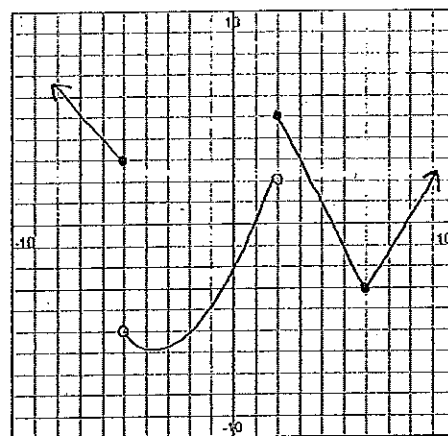
$\lim_{x \rightarrow 2} f(x)$

$\lim_{x \rightarrow 6} f(x)$

$f(-5)$

$f(2)$

$f(6)$



6. Use the graph at the right to find the following:

$\lim_{x \rightarrow -7^-} f(x)$

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

$\lim_{x \rightarrow 8^-} f(x)$

$\lim_{x \rightarrow -7^+} f(x)$

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

$\lim_{x \rightarrow 8^+} f(x)$

$\lim_{x \rightarrow -7} f(x)$

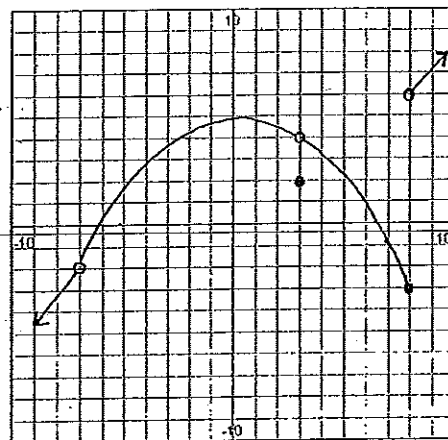
$\lim_{x \rightarrow 3} f(x)$

$\lim_{x \rightarrow 8} f(x)$

$f(-7)$

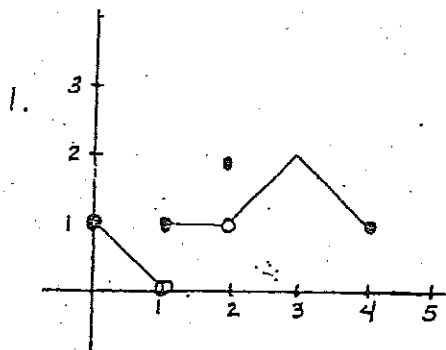
$f(3)$

$f(8)$



Calculus Worksheet

Section 2.1 A



a. $\lim_{x \rightarrow 1^-} f(x) =$

b. $\lim_{x \rightarrow 1^+} f(x) =$

c. $\lim_{x \rightarrow 1} f(x) =$

d. $f(1) =$

e. $\lim_{x \rightarrow 2^-} f(x) =$

f. $\lim_{x \rightarrow 2^+} f(x) =$

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

h. $f(2) =$

i. $\lim_{x \rightarrow 3^-} f(x) =$

j. $\lim_{x \rightarrow 3^+} f(x) =$

k. $\lim_{x \rightarrow 3} f(x) =$

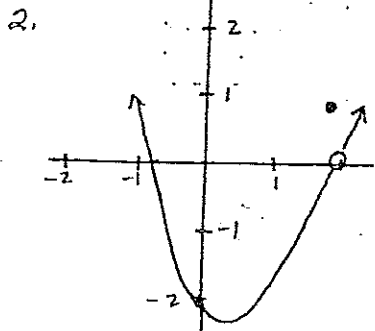
l. $f(3) =$

m. $\lim_{x \rightarrow 4^-} f(x) =$

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

o. $\lim_{x \rightarrow 0^+} f(x) =$

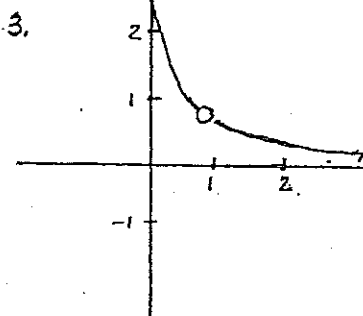
p. $\lim_{x \rightarrow 0} f(x) =$



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

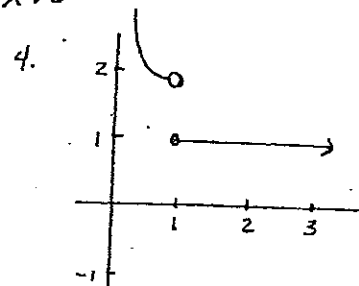
b. $\lim_{x \rightarrow 0} f(x) =$

c. $f(2) =$



a. $\lim_{x \rightarrow 1} f(x) =$

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

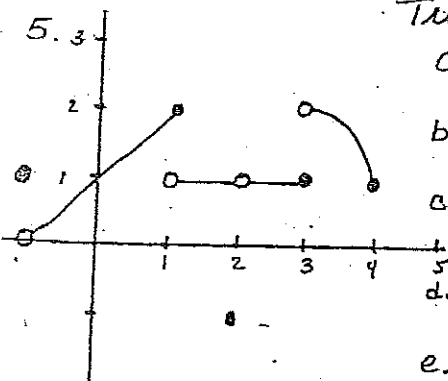


a. $\lim_{x \rightarrow 1^-} f(x) =$

b. $\lim_{x \rightarrow 1^+} f(x) =$

c. $\lim_{x \rightarrow 1} f(x) =$

d. $f(1) =$



True or False?

a. $\lim_{x \rightarrow 2} f(x) = -1$

b. $\lim_{x \rightarrow -1^+} f(x) = 1$

c. $\lim_{x \rightarrow 1^+} f(x) = 1$

d. $\lim_{x \rightarrow 2} f(x)$ exists

e. $\lim_{x \rightarrow 3} f(x) = 1$

f. $\lim_{x \rightarrow 1} f(x)$ does not exist

g. $\lim_{x \rightarrow 3^-} f(x) = 1$

h. $\lim_{x \rightarrow 0^+} f(x) = \lim_{x \rightarrow 0^-} f(x)$

i. $\lim_{x \rightarrow 0} f(x)$ exists

j. $\lim_{x \rightarrow 2} f(x) = 1$

k. $\lim_{x \rightarrow c} f(x)$ exists at every c in the open interval $(-1, 1)$

l. $\lim_{x \rightarrow c} f(x)$ exists at every c in the open interval $(1, 3)$