

Name: _____

Grade: _____

Group Members Present:

_____, _____, & _____

1. Use the graph of f to estimate the following:

a. $\lim_{x \rightarrow -4^+} f(x)$ _____

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

c. $\lim_{x \rightarrow -2^+} f(x)$ _____

d. $f(-2)$ _____

e. $\lim_{x \rightarrow 0^-} f(x)$ _____

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

g. $f(0)$ _____

h. $\lim_{x \rightarrow 1^-} f(x)$ _____

i. $\lim_{x \rightarrow 1^+} f(x)$ _____

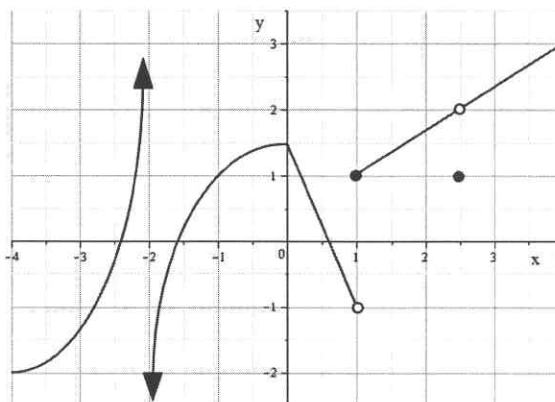
j. $f(1)$ _____

k. $\lim_{x \rightarrow 2.5^-} f(x)$ _____

l. $\lim_{x \rightarrow 2.5^+} f(x)$ _____

m. $f(2.5)$ _____

n. $\lim_{x \rightarrow 4^-} f(x)$ _____



2. Identify whether f is continuous or not continuous at the each of the following input values:

a. $x = -2$ _____

c. $x = 1$ _____

b. $x = 0$ _____

d. $x = 2.5$ _____

3. Sketch a graph of a function with the following properties:

$f(-1) = 4$, $f(1) = -2$, $f(3) = 3$

$\lim_{x \rightarrow 1} f(x) = 1$, $\lim_{x \rightarrow 3^-} f(x) = 3$, $\lim_{x \rightarrow 3^+} f(x) = -1$

