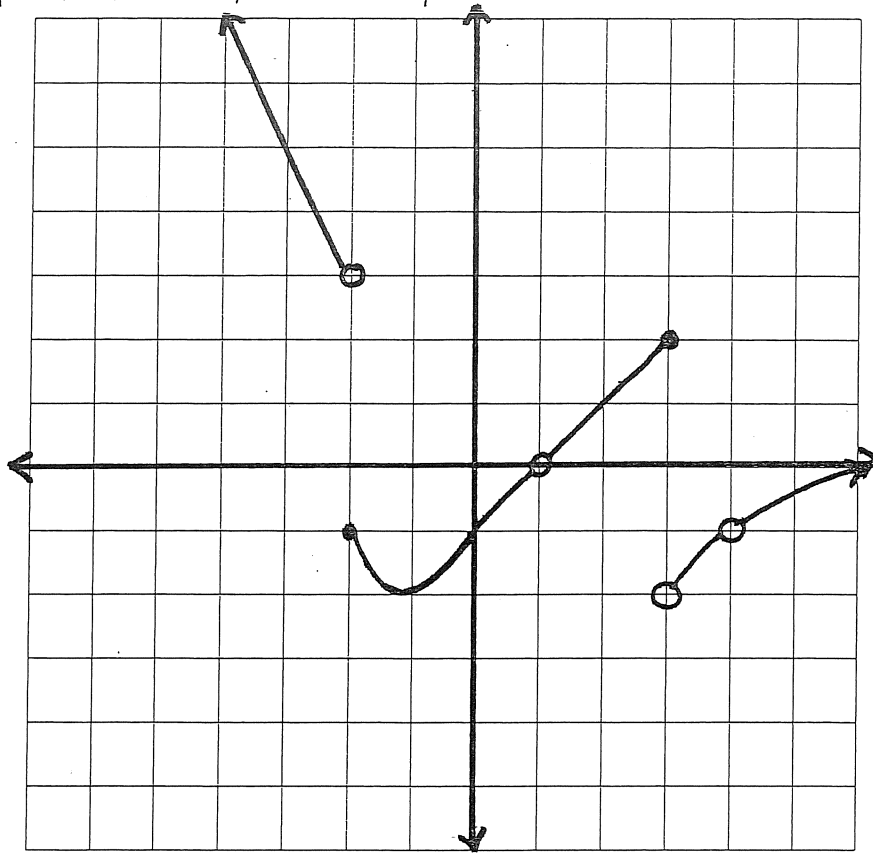


Name Key

Date \_\_\_\_\_

1) Given the graph of a function, find the requested values.



$$\lim_{x \rightarrow -2^+} f(x) = -1$$

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

$$\lim_{x \rightarrow -2} f(x) = \text{dne} \quad f(-2) = -1$$

$$\lim_{x \rightarrow -3^+} f(x) = 5$$

$$\lim_{x \rightarrow -3^-} f(x) = 5$$

$$\lim_{x \rightarrow -3} f(x) = 5 \quad f(-3) = 5$$

$$\lim_{x \rightarrow -1^+} f(x) = -2$$

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

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

$$\lim_{x \rightarrow 1^+} f(x) = 0$$

$$\lim_{x \rightarrow 1^-} f(x) = 0$$

$$\lim_{x \rightarrow 1} f(x) = 0 \quad f(1) = \text{undefined}$$

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

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

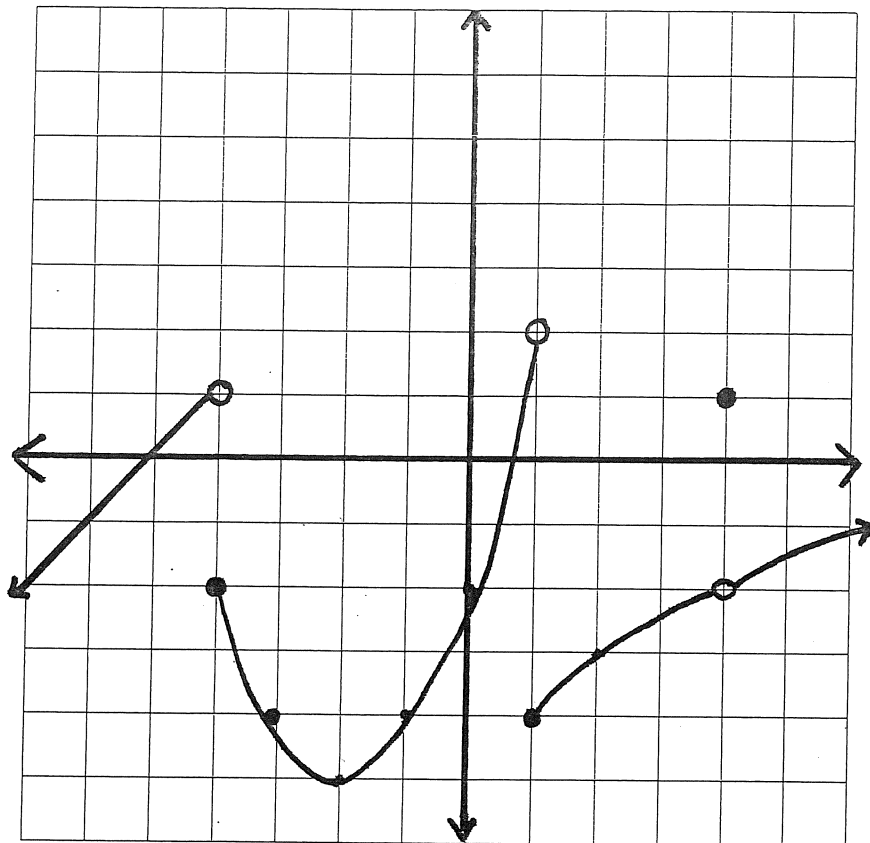
$$\lim_{x \rightarrow 3} f(x) = \text{dne} \quad f(3) = 2$$

$$\lim_{x \rightarrow -\infty} f(x) = \infty$$

$$\lim_{x \rightarrow 4} f(x) = -1$$

$$\lim_{x \rightarrow \infty} f(x) = \infty$$

2) Given the graph of a function, find the requested values.



$$\lim_{x \rightarrow -2^+} f(x) = -5$$

$$\lim_{x \rightarrow -2^-} f(x) = -5$$

$$\lim_{x \rightarrow 2} f(x) = -5 \quad f(-2) = -5$$

$$\lim_{x \rightarrow 3^+} f(x) = -2.5$$

$$\lim_{x \rightarrow 3^-} f(x) = -2.5$$

$$\lim_{x \rightarrow 3} f(x) = -2.5 \quad f(3) = -2.5$$

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

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

$$\lim_{x \rightarrow 2} f(x) = -3 \quad f(2) = -3$$

$$\lim_{x \rightarrow 1^+} f(x) = -4$$

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

$$\lim_{x \rightarrow 1} f(x) = \text{dne} \quad f(1) = -4$$

$$\lim_{x \rightarrow 4^+} f(x) = -2$$

$$\lim_{x \rightarrow 4^-} f(x) = -2$$

$$\lim_{x \rightarrow 4} f(x) = -2 \quad f(4) = 1$$

$$\lim_{x \rightarrow -3^+} f(x) = -4$$

$$\lim_{x \rightarrow -3^-} f(x) = -4$$

$$\lim_{x \rightarrow -3} f(x) = -4 \quad f(-3) = -4$$

$$\lim_{x \rightarrow \infty} f(x) = \infty$$

$$\lim_{x \rightarrow -\infty} f(x) = -\infty$$