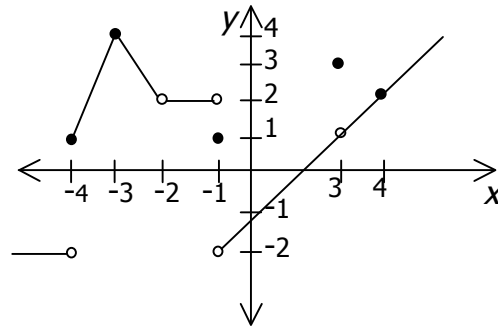


Name: \_\_\_\_\_

PS ID: \_\_\_\_\_



Where is the function continuous?

Input $x = a$	Output $f(a)$	Left-hand limit $\lim_{x \rightarrow a^-} f(x)$	Right-hand limit $\lim_{x \rightarrow a^+} f(x)$	Limit $\lim_{x \rightarrow a} f(x)$
-4				
-3				
-2				
-1				
3				
4				

Limit table for the function  $f$ .

Sketch the graph of a function satisfying the stated requirements.

- $\lim_{x \rightarrow 1^+} f(x) = 2$        $\lim_{x \rightarrow 1^-} f(x) = -1$        $f(1)$  is undefined
- $\lim_{x \rightarrow -2^-} g(x) = 0$        $\lim_{x \rightarrow -2^+} g(x) = 0$        $g(-2) = 1$
- $\lim_{x \rightarrow 2^-} h(x) = -2$        $\lim_{x \rightarrow 2^+} h(x) = 2$        $h(2) = 0$
- $\lim_{x \rightarrow 0^-} i(x) = -1$        $\lim_{x \rightarrow 0^+} i(x) = -2$        $i(0) = -1$
- $\lim_{x \rightarrow -1^-} j(x) = 3$        $\lim_{x \rightarrow -1^+} j(x) = -2$        $j(-1) = -2$
- $\lim_{x \rightarrow -3^-} k(x) = 1$        $\lim_{x \rightarrow -3^+} k(x) = 1$        $k(-3)$  is undefined