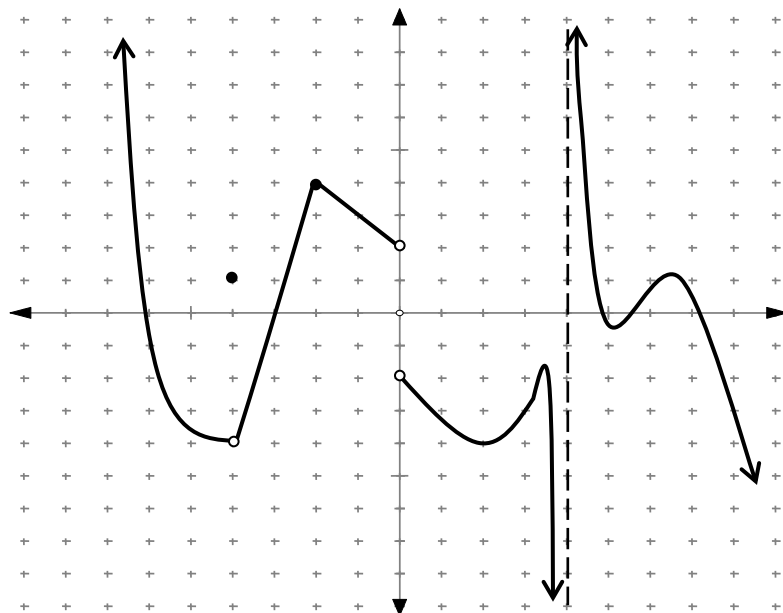


Name: _____

Date: _____

1. Fill out the following table for the function f shown below:



$x = a$	$f(a)$	$\lim_{x \rightarrow a^-} f(x)$	$\lim_{x \rightarrow a^+} f(x)$	$\lim_{x \rightarrow a} f(x)$	Is $f(x)$ continuous at $x = a$
-6					
-4					
-2					
0					
4					
8					

2. Determine a value of b such that $g(x) = \begin{cases} 3x + 2, & x \geq 1 \\ bx^3 + bx, & x < 1 \end{cases}$ is continuous for all real numbers.