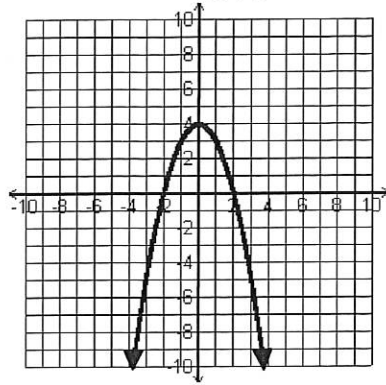


## Introducing Interval Notation

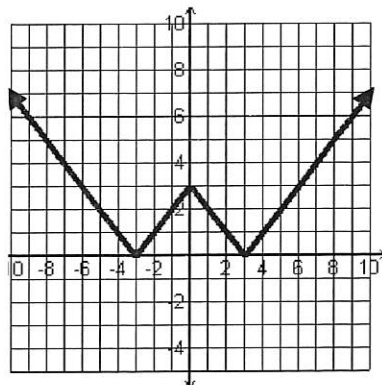
**Instructions:** Fill in the missing parts in the chart below.

	Inequality	Interval Notation	Graph
Ex.	$-3 \leq x < 5$	$[-3, 5)$	
Ex.	$x > 2$	$(2, \infty)$	
1.	$x \leq 3$		
2.		$(-\infty, 4)$	
3.			
4.		$[5, \infty)$	
5.			
6.	$x < 1$ or $x \geq 5$		
7.			
8.	$x$ is any real #		
9.			
10.		$(1, 4)$	
11.	$x > 7$		
12.		$[-2, 2]$	

13. Given the graph of  $f(x)$  below find:  
 On what intervals of  $x$  is  $f(x)$  increasing?  
 On what intervals of  $x$  is  $f(x)$  positive?



14. Given the graph of  $f(x)$  below find:  
 On what intervals of  $x$  is  $f(x)$  decreasing?  
 On what intervals of  $x$  is  $f(x)$  positive?



15. Given the graph of  $f(x)$  below find:  
 On what intervals of  $x$  is  $f(x)$  constant?  
 On what intervals of  $x$  is  $f(x)$  negative?

