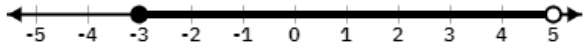
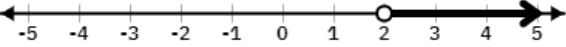
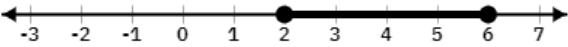
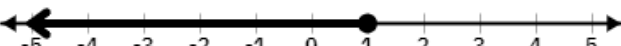
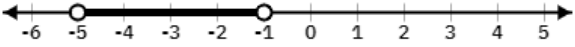
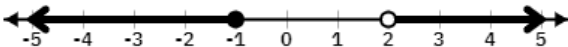
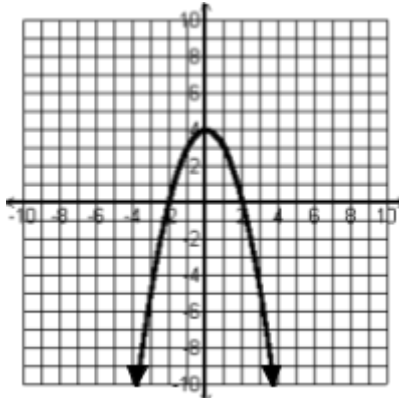


Introducing Interval & Set Notation

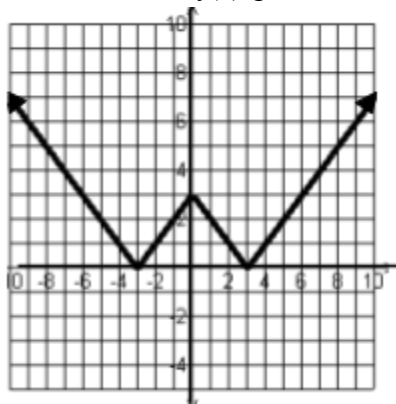
Instructions: Fill in the missing parts in the chart below.

	Set Notation	Interval Notation	Graph
Ex.	$\{x \mid -3 \leq x < 5\}$	$[-3, 5)$	
Ex.	$\{x \mid x > 2\}$	$(2, \infty)$	
1.	$\{x \mid x \leq 3\}$		
2.		$(-\infty, 4)$	
3.			
4.		$[5, \infty)$	
5.			
6.	$\{x \mid x < 1 \text{ or } x \geq 5\}$		
7.			
8.	$\{x \mid x \text{ is a real \#}\}$		
9.			
10.		$(1, 4)$	
11.	$\{x \mid x > 7\}$		
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?

