

**WS 4-1 – Interval Notation**

Draw a graph for each inequality. Then, write each inequality in interval notation.

Inequality	Graph	Interval Notation
1. $x > -5$		
2. $x \geq 2$		
3. $x < -2$		
4. $x > 4$		
5. $x \leq 0$		
6. $x \geq -4$		
7. $x > 5$		
8. $x \leq -3$		
9. $x > 0$		
10. $x \geq -2$		

Write an inequality for each graph. Then, write the inequality in interval notation.

Graph	Inequality	Interval Notation
11.		
12.		
13.		
14.		
15.		
16.		

Graph each interval on the given graph. Then, write the inequality for the interval.

Interval	Graph	Inequality
17. $(-\infty, 4]$		
18. $(-2, \infty)$		
19. $[6, \infty)$		
20. $(-\infty, -2)$		
21. $(-\infty, 0]$		
22. $[-1, \infty)$		
23. $(-\infty, -3)$		
24. $(-\infty, 4]$		

Write the interval for the given graph.

Graph	Interval
25.	
26.	
27.	
28.	

Graph each interval on the given graph.

Interval	Graph
29. $(-4, 6]$	
30. $(-\infty, -3] \cap (-2, \infty)$	
31. $[3, 6]$	
32. $(-5, 5] \cap (0, \infty)$	
33. $(-\infty, -4) \cup [-5, 3)$	

