

Name:

1. Find the slope of the line  $2x - 3y = 6$ .

- (A) 3 (C)  $\frac{2}{3}$  (E) 2  
(B)  $-3$  (D)  $-\frac{2}{3}$

2. Find the equation of the line that passes through the points  $(0, 3)$  and  $(1, 2)$ .

- (A)  $y = x + 3$  (C)  $y = -x - 3$  (E)  $y = 3x - 1$   
(B)  $y = -x + 3$  (D)  $y = x - 3$

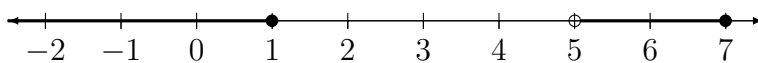
3. Find the point of intersection of the graphs of  $x - y = 9$  and  $x + y = 5$

- (A)  $(7, -2)$  (C)  $(-7, -2)$  (E)  $(-2, 7)$   
(B)  $(7, 2)$  (D)  $(2, 7)$

4. Find an equation for the line that is parallel to  $2x + 4y = 6$  that passes through the point  $(3, 1)$ .

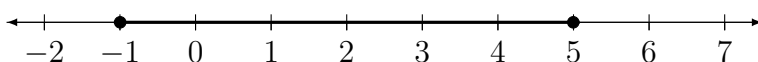
- (A)  $y = -\frac{1}{2}x + \frac{5}{2}$  (C)  $y = 2x - 5$  (E)  $y = -\frac{1}{2}x + \frac{3}{2}$   
(B)  $y = -2x + 7$  (D)  $y = \frac{1}{2}x - 2$

5. The intervals shown on the number line below can be expressed in interval notation as:



- (A)  $(-\infty, 1] \cup (5, 7]$  (C)  $[-\infty, 1) \cup [5, 7)$  (E)  $[-\infty, 1] \cup [5, 7]$   
(B)  $(-\infty, 1] \cap (5, 7]$  (D)  $(-\infty, 1) \cup [5, 7)$

6. The interval shown on the number line below can be expressed as:



- (A)  $|x - 2| < 2$  (C)  $|x + 3| > 2$  (E)  $|x - 2| > 3$   
(B)  $|x - 2| \geq 3$  (D)  $|x - 2| \leq 3$