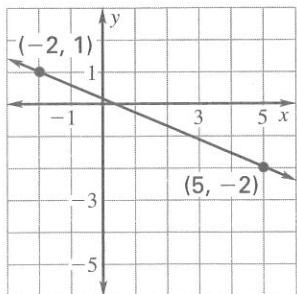


**SAT/ACT Chapter Test**

For use after Chapter 5

1. What is the equation of the line that passes through the points  $(-3, 4)$  and  $(-9, 6)$ ?
- (A)  $y = -\frac{1}{3}x - \frac{5}{3}$     (B)  $y = -\frac{1}{3}x + 3$   
 (C)  $y = -3x - 5$     (D)  $y = -3x + 12$
2. A line with a slope of  $-3$  passes through the point  $(4, -3)$ . If  $(-3, p)$  is another point on the line, what is the value of  $p$ ?
- (A)  $-21$     (B)  $0$   
 (C)  $18$     (D)  $24$
3. An equation of the line parallel to the line  $y = \frac{1}{3}x - 2$  and passes through  $(3, -5)$  is \_\_\_\_\_?
- (A)  $y = -3x + 4$     (B)  $y = \frac{1}{3}x + \frac{14}{3}$   
 (C)  $y = -3x - 12$     (D)  $y = \frac{1}{3}x - 6$
4. An equation of the line perpendicular to the line  $y = -\frac{3}{4}x + 4$  with a  $y$ -intercept of  $-5$  is \_\_\_\_\_?
- (A)  $y = -\frac{3}{4}x - 5$     (B)  $y = \frac{3}{4}x - 5$   
 (C)  $y = \frac{4}{3}x - 5$     (D)  $y = -\frac{4}{3}x + 5$
5. What is the equation of the line that passes through  $(-6, 2)$  and has a slope of  $-\frac{2}{3}$ ?
- (A)  $y = -\frac{2}{3}x - \frac{14}{3}$     (B)  $y = -\frac{2}{3}x - 2$   
 (C)  $y = -\frac{2}{3}x + 6$     (D)  $y = -\frac{2}{3}x - 6$
6. What is the equation of the line shown in the graph?



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

In Questions 7 and 8, choose the statement below that is true about the given numbers.

- A. The number in column A is greater.  
 B. The number in column B is greater.  
 C. The two numbers are equal.  
 D. The relationship cannot be determined from the given information.

7.

Column A	Column B
$x$ -intercept of $2x - 3y = 4$	$x$ -intercept of $3x - 7y = -6$

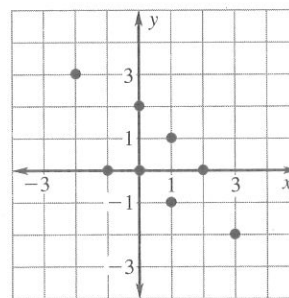
- (A)    (B)    (C)    (D)

8.

Column A	Column B
slope of $9x - 12y = 8$	slope of $4y - 3x = 16$

- (A)    (B)    (C)    (D)

9. What is the equation of the line that best fits the scatter plot?



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