Date:

Period:

Answer each question and show work for the questions that require justification of your answer.							
1.	A line has no slope if it is:						
(a)	Parallel to the x-axis	(b)	Parallel to the y-axis	(c)	45° with the x-axis	(d)	45° with the y-axis
2.	Which of the following is an equation of a line whose slope is 0?						
(a)	y = 6	(b)	x = 6	(c)	y = 2x	(d)	x + y = 1
3.	Write the equation of a line parallel to the x-axis and 4 units below the x-axis.						
4.	Write the equation of the line parallel to the y-axis and 7 units to the left of the y-axis.						
5.	Write the equation of the line which is parallel to the y-axis and 1 unit to the right of it.						
6.	Write the equation of a line which is parallel to the x-axis and 7 units above it.						
7.	Write an equation of a line parallel to the x-axis and passing through the point (4, 6).						
8.	Write an equation of a line perpendicular to the x-axis and 5 units to the right of the y-axis.						
9.	Which is an equation of a line whose slope is 0?						
(a)	x = 7	(b)	y = 7	(c)	7x = y	(d)	x + y = 7
10.	Which pair of points will determine a line parallel to the x-axis?						
(a)	(2, 3) and (2, -5)	(b)	(5, 4) and (-1, 4)	(c)	(2, 2) and (-1, -1)	(d)	(3, 4) and (6, 2)
11.	What is the slope and y-intercept of the graph of the equation $3y + 2x = 9$ ?						m =
							b =
12.	The equation of a line is $3x + 8y - 16 = 0$ . What is the slope and y-intercept?						m =
	·			•	, .		
13.	Which line has a slope of $-\frac{1}{3}$ ?						
(a)	$y = \frac{1}{2}x + 2$	(b)	3y + x = 9	(c)	y = 3x + 1	(d)	3y = x + 6
11	$\frac{1}{3}$ Which is the equation of	sf a lie	No with a close of 1 and a	v_into	rcent of 22	. /	
14. (a)	y + y = 2	/ a III (b)	v = v = 2	(c)	y = y + 2 = 0	(d)	v + v - 2 - 0
(a)	y ' ^ - Z	(u)	y — A — Z	$(\mathbf{c})$	y A 2 - 0	(u)	y · A = 2 = 0

- 15. What is the slope of a line parallel to the line whose equation is y = 5x + 4?
- (a)  $-\frac{5}{4}$  (b) 5 (c)  $-\frac{4}{5}$  (d) 4
- 16. Which is the slope of the line whose equation is 4x + 3y = 9?
- (a)  $-\frac{3}{4}$  (b) +3 (c)  $-\frac{4}{3}$  (d)  $\frac{4}{3}$
- 17. What is the slope of a line whose equation is 7x 5y = 10?
- 18. Write in y = mx + b form, the line whose equation is 7x 4y = 8.
- 19. What is the equation of a line that is parallel to the line whose equation is y = 4x + 9?
- (a)  $y = -\frac{1}{4}x + 5$  (b) y = -4x + 5 (c)  $y = \frac{1}{4}x 3$  (d) y = 4x 3
- 20. What is the equation of a line perpendicular to the line whose equation is y = 6x + 3?
- (a)  $y = -\frac{1}{6}x + 2$  (b)  $y = \frac{1}{6}x + 4$  (c) y = 6x + 8 (d) y 6x + 9

<sup>21.</sup> What is the slope of a line parallel to the line whose equation is  $y = \frac{3}{7}x - 1$ ?

- 22. Write the equation of the line parallel to the line whose equation is  $y = \frac{3}{5}x + 7$  and that has a y-intercept of 4.
- 23. Is the graph of the line passing through the points (7, 8) and (3, 6) parallel, perpendicular or neither to the line passing through the points (1, 5) and (2, 3)?
- 24. Write the equation of the line that is perpendicular to y = x and passes through the origin.
- 25. Write the equation of a line that is parallel to y = 0.5x + 6 and has the same y-intercept as y = -9x 7.
- 26. Write the equation of the line that is perpendicular to 7x + 5y = 35 and has a y-intercept of -1.