Algebra I   Name: _____ Block: _____ Date:_____
SOL A.6   LESSON 4.5   **Practice A**   *For use with pages 243–250*
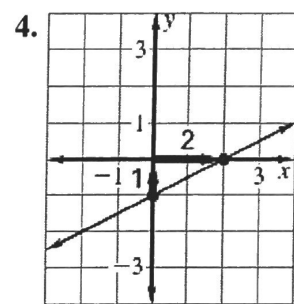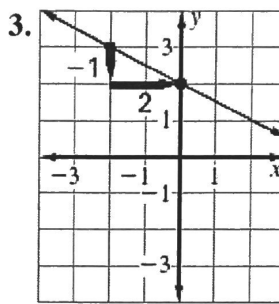
| y =mx + b |
| Worksheet |

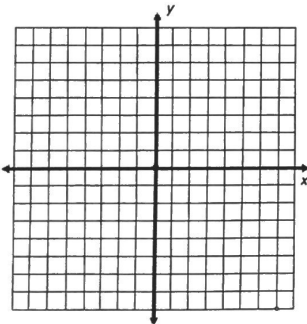**Identify the slope and y-intercept of the line whose graph is shown.**

1.

2.

3.

4.
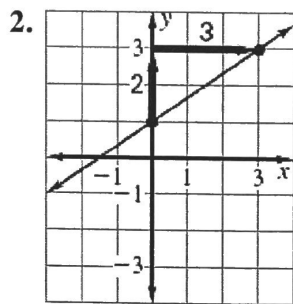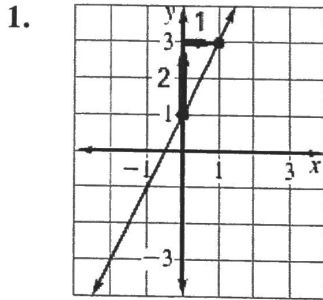
Identify the slope and y-intercept of the line with the given equation.

		SLOPE	y-intercept
5	$y = 3x + 4$		
6	$y = -2x + 8$		
7	$y = \dfrac{1}{2}x$		
8	$y = -\dfrac{3}{4}x - 1$		

Graph the equation.
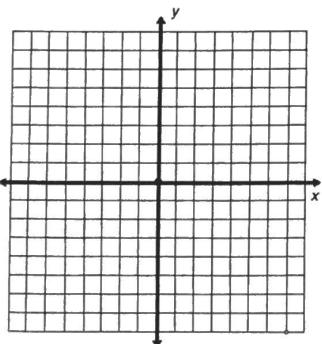
9. $y = x + 5$

10. $y = x - 7$
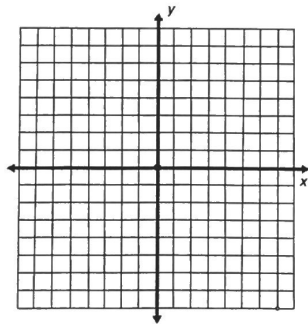
11. $y = -4x + 1$
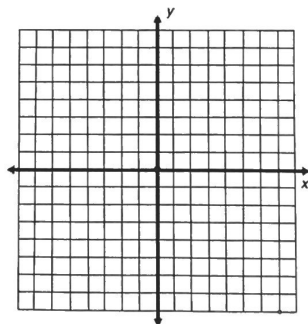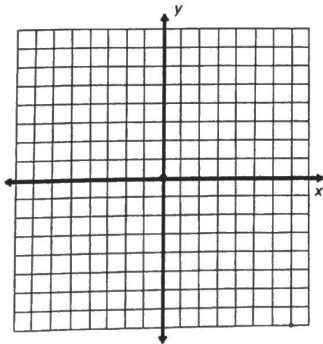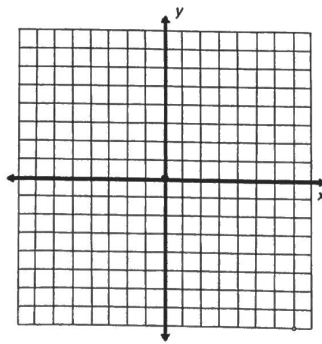
12. $y = 2x$
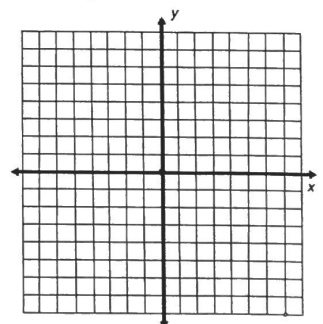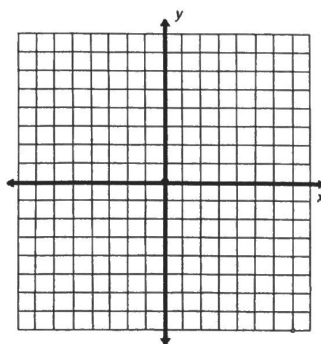
13. $y = \dfrac{1}{3}x + 2$

14. $y = -\dfrac{1}{4}x + 3$

15. $y = \dfrac{2}{3}x - 1$

16. $y = -\dfrac{3}{4}x - 3$

17) Find the slope of the line that passes through each pair of points.

a) (3, 5) and (-3, -5)

b) (-5, 3) and (-4, 9)

c) (2, 4) and (2, 3)

d) (10, -7) and (5, -7)

18) Find the value of y so that the line passing through the points (2, 5) and (7, y) has a slope of $\dfrac{2}{3}$

19) A parking garage charges the rates in the table below. What is the rate of change? Don't forget your units.

Number of Hours	1	3	5
Cost of Parking	$10	$14	$16

20) Rewrite equation in slope-intercept form (Solve for y):

a) $3x + y = 14$

b) $2x - y = 7$

c) $2x + 4y = 12$

d) $6x - 4y = 20$