

Identify the slope (*m*), *y*-intercept (*b*) and then graph the equation.













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Given the graphs, identify the slope (m), *y*-intercept (b) and write the equation of the line.





Equation:















Equation:



Equation:_____

Write an equation for each line given the table below.

15.

x	у
-5	25
0	30
5	35
10	40

Equation:_____

19.

x	у
-2	4
-1	1
0	-2
2	-8

Equation:_____

20.

x	у
-4	-13
-4	-8
-4	0
-4	3
-4	9

Equation:_____

16.

x	у
-2	-8.50
0	0
1	4.25
3	12.75

Equation:_____

17.

x	y
0	5
100	6
300	8
1500	20

Equation:_____

18.

x	у
-10	5
-3	5
0	5
2	5
7	5

Equation:_____

Write an equation of a line in slope-intercept form with the given slope and y-intercept.

21. slope:
$$\frac{1}{2}$$
; y-intercept: 6

22. slope:
$$-2$$
; y-intercept: 3

x	у
0	5
100	6

- 23. The Viera family is traveling from Philadelphia to Orlando for vacation. The equation y = 1000 50x represents the distance in miles remaining in their trip after x hours.
 - a. Graph the equation.
 - **b.** Interpret the slope and the *y*-intercept



- 24. The Lakeside Marina charges a \$35 rental fee for a boat in addition to charging \$15 an hour for usage. The total cost y of renting a boat for x hours can be represented by the equation y = 15x + 35.
 - a. Graph the equation.
 - **b.** Interpret the slope and the *y*-intercept



25. Which statement could be true for the graph below?



- Mr. Blackwell will earn \$1,750 if his sales are \$10,000.
- B Ms. Chu will not earn any money if she has no sales.
- © Mr. Montoya earns \$250 for every \$1,000 he sells.
- Ms. James earns \$2,500 if she sells
 \$2,500 worth of merchandise.

- 26. Jaquie has 20 postcards in her collection. She decides that from now on, every time she goes on vacation she will buy 8 postcards to add to the collection. The total number of postcards *y* can be represented by the equation y = 8x + 20. What does the slope represent?
 - (E) the total number of postcards
 - G the number of postcards when she began collecting
 - H the number of vacations
 - ① the number of cards she buys on each vacation