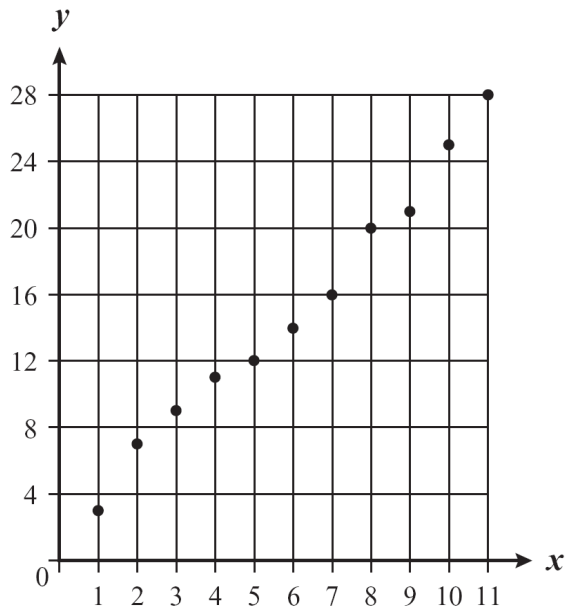


- 1 Which of the following is an equation for a line that is **not** parallel to the other three?
- A.  $3x - 2y = 5$
  - B.  $-3x + 2y = 9$
  - C.  $2x - 3y = -1$
  - D.  $-3x + 2y = 8$

Mark your answer here: 1. (A)(B)(C)(D)

- 2 Which of the following equations best represents the line of best fit for the data shown in the scatterplot below?

Mark your answer here: 2. (A)(B)(C)(D)



- A.  $y = -2.5x + 1$
- B.  $y = 2.5x + 1$
- C.  $y = -0.6x + 1$
- D.  $y = 0.6x + 1$



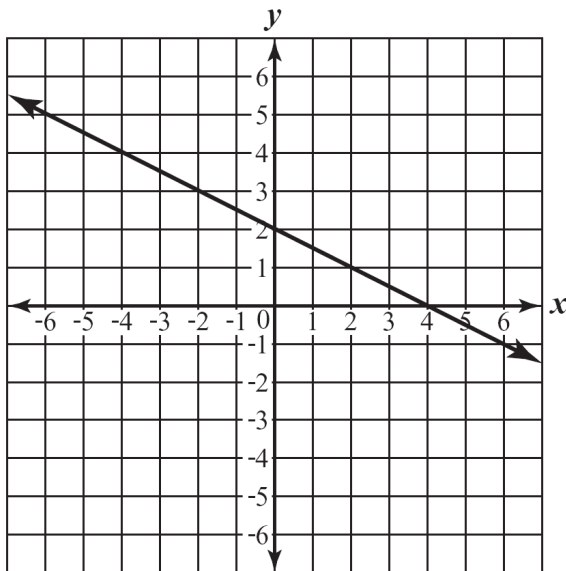
3 Which of the following is an equation of the line with slope 2 that passes through the point  $(-1, -4)$ ?

Mark your answer here: 3. (A)(B)(C)(D)

- A.  $y = 2x + 4$
- B.  $y = x - 4$
- C.  $y = 4x - 2$
- D.  $y = 2x - 2$

4 Which of the following best represents the slope and  $y$ -intercept of the line on the coordinate grid below?

Mark your answer here: 4. (A)(B)(C)(D)



- A. slope =  $-\frac{1}{2}$ ;  $y$ -intercept = 2
- B. slope =  $\frac{1}{2}$ ;  $y$ -intercept = 2
- C. slope =  $-\frac{1}{2}$ ;  $y$ -intercept = 4
- D. slope =  $\frac{1}{2}$ ;  $y$ -intercept = 4

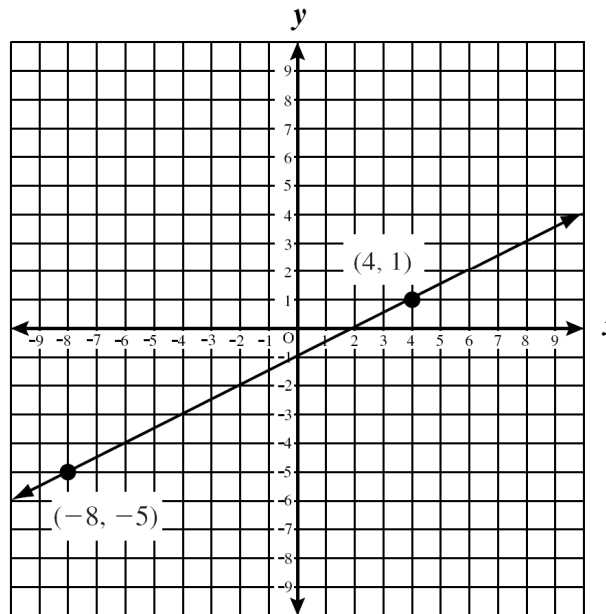


**5** Elaine’s summer job earnings were \$1275. She spent \$40 of her earnings per week during the school year. Which of the following equations represents the amount of money,  $m$ , that was remaining from Elaine’s summer job earnings after  $w$  weeks of school?

Mark your answer here: 5. (A)(B)(C)(D)

- A.  $m = -1275 + 40w$
- B.  $m = -40 + 1275w$
- C.  $m = 40 - 1275w$
- D.  $m = 1275 - 40w$

**6** Write an equation for the line drawn below.



Write your answer here:



Directions: For the problem below, use a separate piece of paper to write your answers. Your teacher will not count anything you write on this page.

**7**

Laurie's parents gave her \$25 to open a checking account. At the end of each week after the account was opened, Laurie deposited \$20 into her checking account. No other money was deposited into or withdrawn from the checking account.

- a. What was the total amount of money in Laurie's checking account at the end of week 5? Show or explain how you got your answer.
- b. On the grid in your Student Answer Booklet, plot six points with coordinates  $(x, y)$ , in which  $x$  and  $y$  are defined as follows:
  - $x$  = the number of weeks since the account was opened (in whole numbers from 0 through 5), where  $x = 0$  corresponds to the opening of the account
  - $y$  = the total amount of money in the account at the end of week  $x$Be sure to label the  $x$ -axis and  $y$ -axis, indicate the scale on each axis, and include a title for your graph.
- c. Write an equation that represents the line that passes through all the points plotted in part (b). Show or explain how you determined your equation.
- d. For the line represented by your equation in part (c), explain the meaning of the  $y$ -intercept in the context of this problem.