

Unit 3 Test Corrections

Due by _____

Name: _____

Period: _____ Date: _____

1. Find the slope of the line that passes through $(2a, -3a)$ and $(5a, 9a)$.

A. $-\frac{1}{4}$

B. $\frac{1}{4}$

C. 4

D. -4

2. Find the slope of the line that passes through points $(6j, 3j)$ and $(-4j, 7j)$.

A. $\frac{2}{5}$

B. $-\frac{5}{2}$

C. $\frac{5}{2}$

D. $-\frac{2}{5}$

3. Find the slope of the function $3x - 2y = 10$

A. $\frac{2}{3}$

B. $-\frac{2}{3}$

C. $\frac{3}{2}$

D. $-\frac{3}{2}$

4. Find the slope of the function $-6x - y = -8$

A. 6

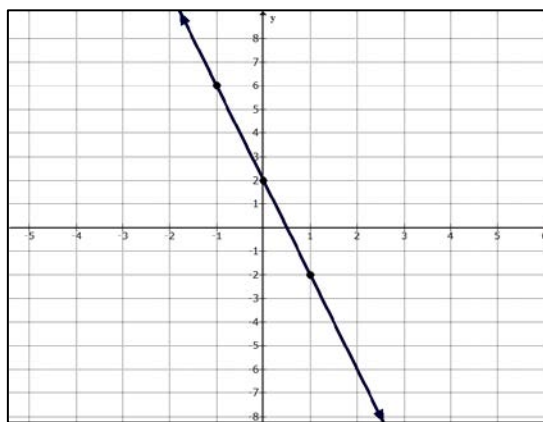
B. -6

C. 8

D. -8

5. If $(-7, y)$ is a solution to the equation $2x - 7y - 42 = 0$, what is the value of y ?

6. Which of the following equations correctly represents the graph below?



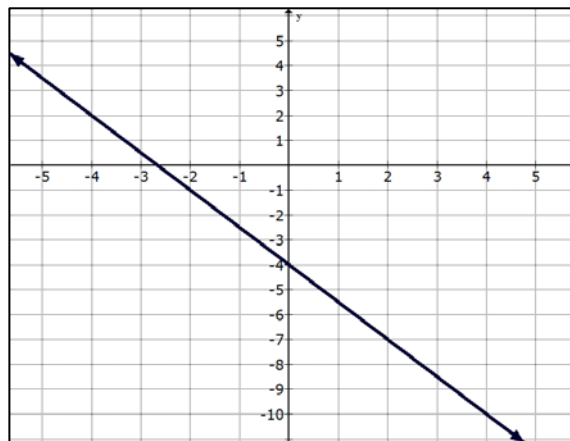
A. $y = -\frac{1}{4}x + 2$

C. $y = \frac{1}{4}x + 2$

B. $y = -4x + 2$

D. $y = 4x + 2$

7. What is the rate of change of the line of the given graph?



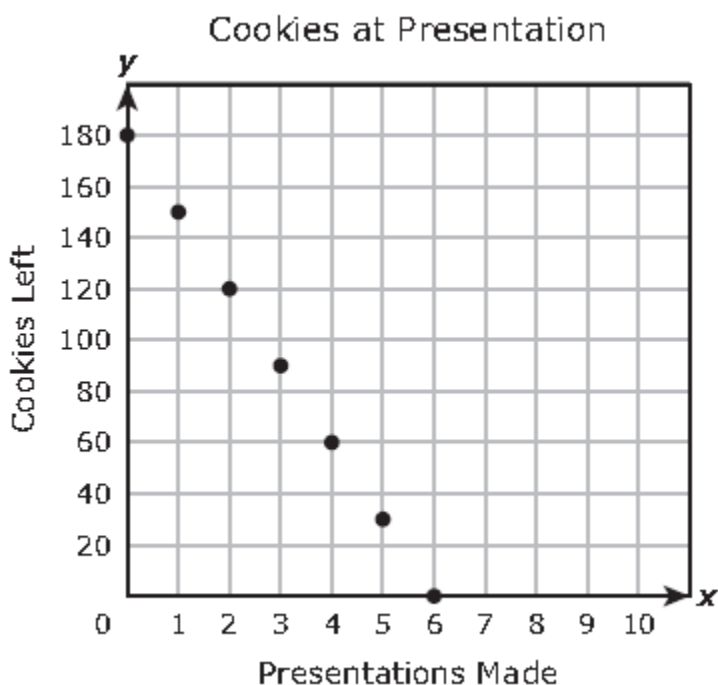
A. $\frac{2}{3}$

C. $-\frac{2}{3}$

B. $\frac{3}{2}$

D. $-\frac{3}{2}$

8. The graph shows the relationship between the number of cookies a presenter at a convention had left to give away and the number of presentations that she had made.



What does the y-intercept of the graph represent?

- A. The number of cookies the presenter had before making any presentations
- B. The maximum number of cookies the presenter gave away during every presentation
- C. The number of presentations the presenter made per hour
- D. The maximum number of presentations the presenter made before running out of cookies

Use the graph to the right to answer the following questions #9-10.

9. What is the value of $f(6)$?

- A. 7
- B. 4
- C. -7
- D. 0

10. Find x when $f(x) = 2$.

- A. $x = 2$
- B. $x = 5$
- C. $x = 2$ and $x = 5$
- D. $x = -2$

