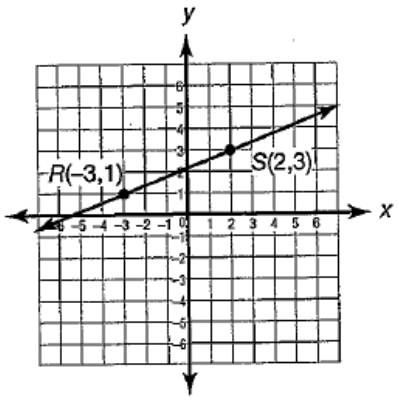
Name: _____ **Date:** _____ **Topic: Writing Linear Equations**

1 What is the slope of the line that passes through points R and S?



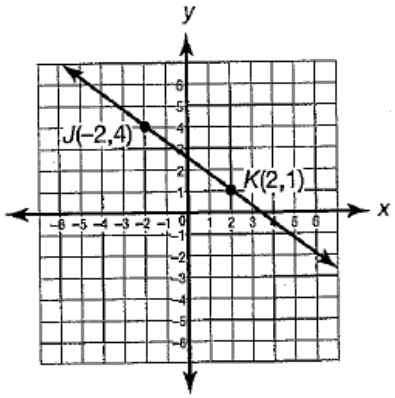
A $-\frac{5}{2}$

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

C $\frac{2}{5}$

D $\frac{5}{2}$

2 What is the slope of the line that passes through points J and K?



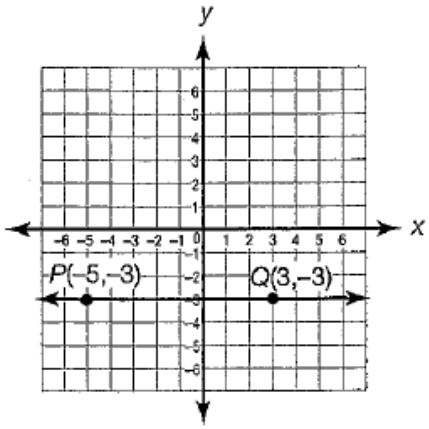
F $-\frac{4}{3}$

G $-\frac{3}{4}$

H $\frac{3}{4}$

J $\frac{4}{3}$

3 What is the slope of the line that passes through points P and Q?



A −3

B 0

C 1

D 2

4 Which table shows a constant rate of change in the corresponding x-values and y-values?

F

x	y
1	4
2	5
3	8
4	9

H

x	y
0	9
3	8
6	6
9	4

G

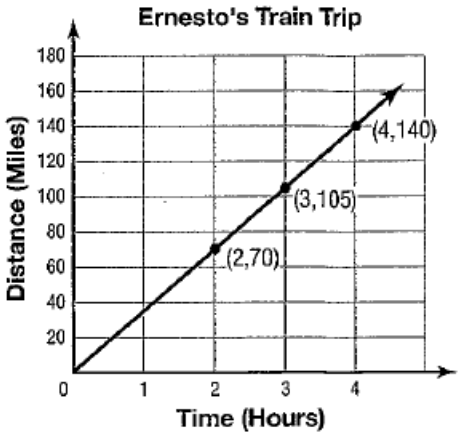
x	y
0	2
1	5
2	8
3	11

J

x	y
0	2
2	4
4	8
6	16

Name: _____ **Date:** _____ **Topic: Writing Linear Equations**

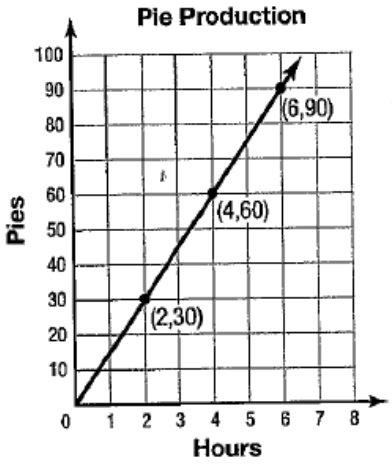
5 Ernesto rode on a train that traveled at a constant rate. The graph compares the number of hours traveled to the numbe of miles traveled.



What was the rate of speed of the train

A 35 miles per hour
B 70 miles per hour
C 105 miles per hour
D 140 miles per hour

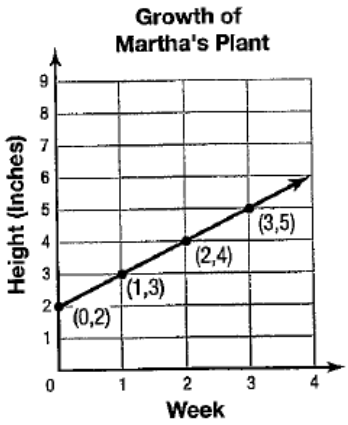
6 This graph shows the number of pies produced at a bakery as a function of time.



What is the rate of pie production?

F 10 pies per hour
G 15 pies per hour
H 30 pies per hour
D 60 pies per hour

7 This graph shows the growth of a plant in Martha's window box.



What is the rate of growth of Martha's plant?

A $\frac{1}{2}$ inch per week
B 1 inch per week
C 2 inches per week
D 5 inches per week

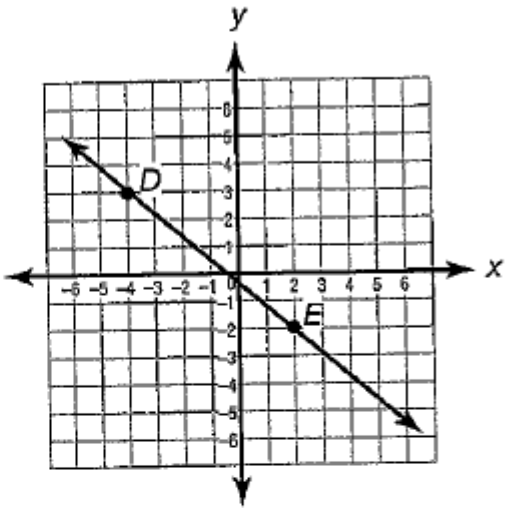
8 What is the slope of a line going through points (−2,−3) and (−4,−5)?

Answer _____

9 A line with slope of 2 passes through the points (2,5) and (4,?). Find the missing number of the second ordered pair.

Answer _____

10. What is the slope of this line?



Show your work.

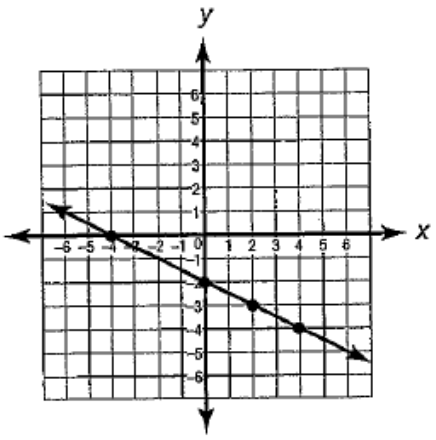
Answer _____

Name: _____ **Date:** _____ **Topic: Writing Linear Equations**

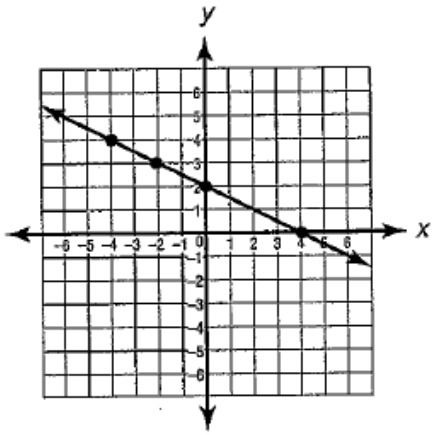
5 Which graph matches this table of values?

x	–4	–2	0	4
y	0	1	2	4

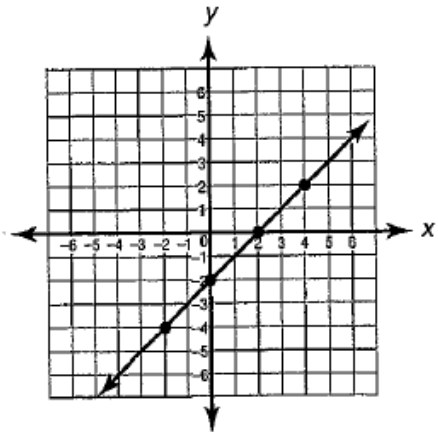
A



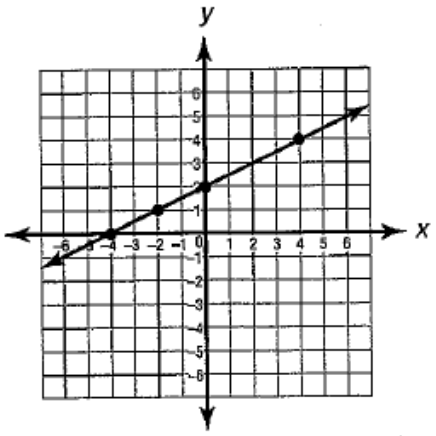
C



B



D

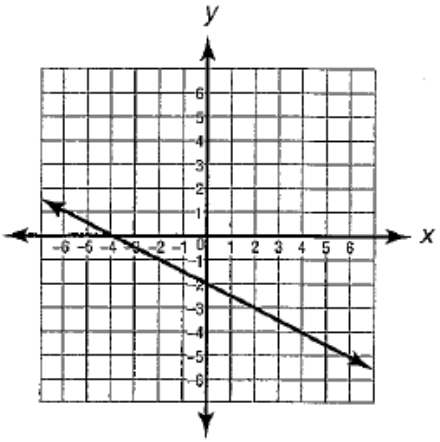


Name: _____ **Date:** _____ **Topic: Writing Linear Equations**

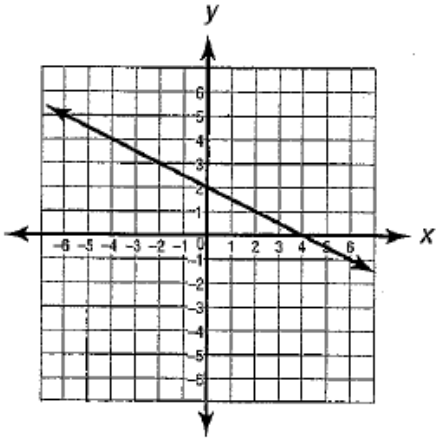
2 Which graph matches this table of values?

x	−4	0	2	4
y	4	2	1	0

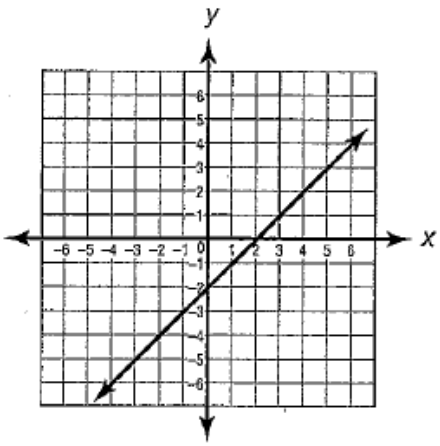
F



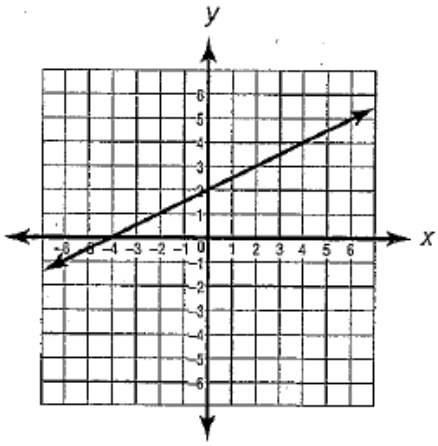
H



G



J

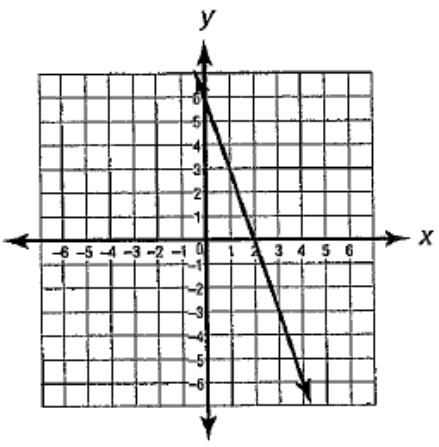


Name: _____ **Date:** _____ **Topic: Writing Linear Equations**

3 Which is the graph of this equation? [Hint: Make a table of values.]

$y = -3x + 6$

A



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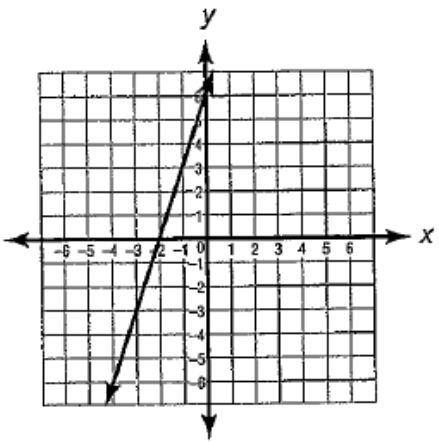
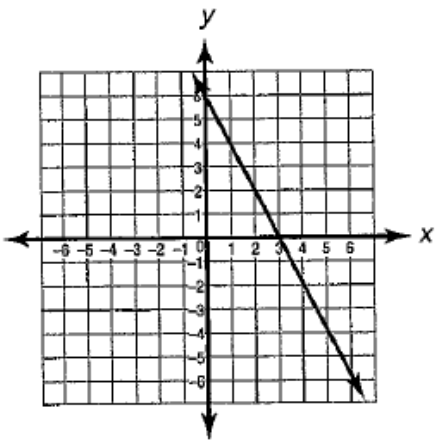
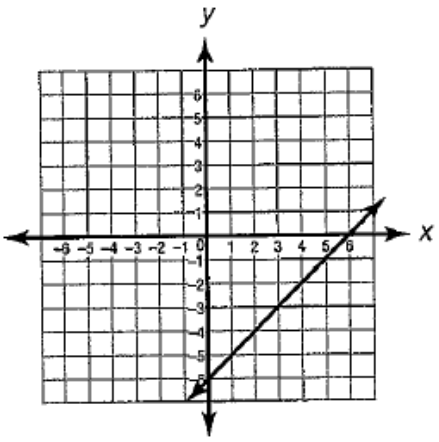


B



D

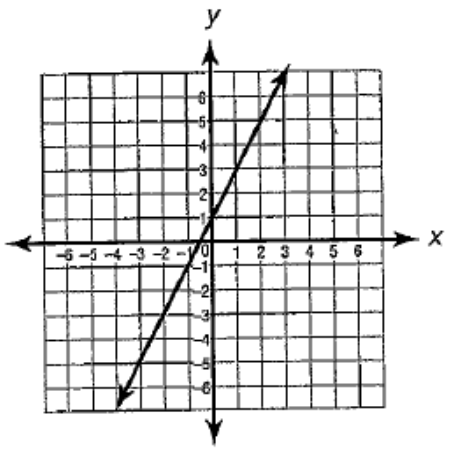


Name: _____ **Date:** _____ **Topic: Writing Linear Equations**

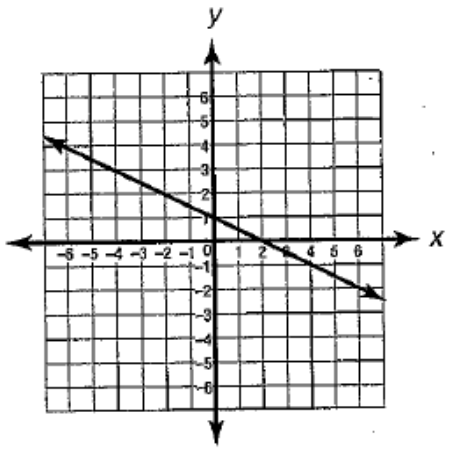
Which is the graph of this equation? [Hint: Make a table of values.]

$y = \frac{1}{2}x + 1$

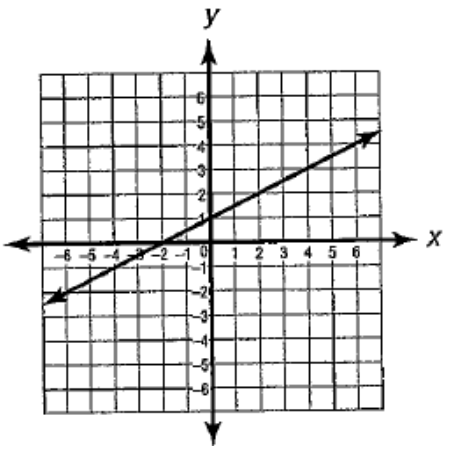
F



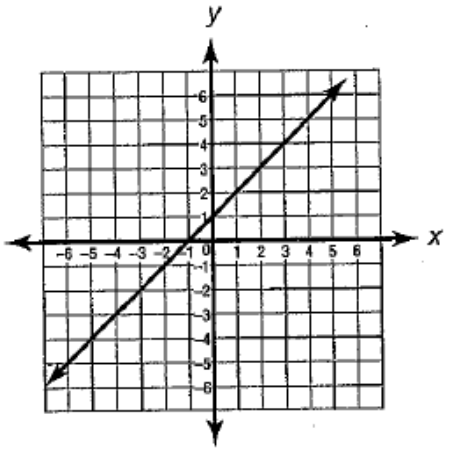
H



G

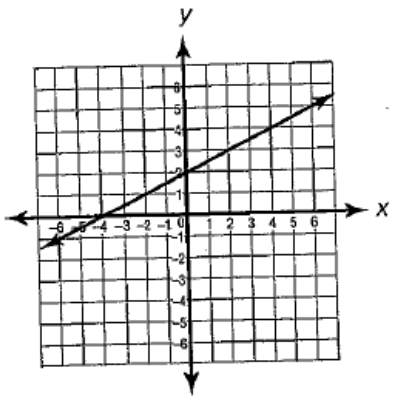


J



Name: _____ **Date:** _____ **Topic: Writing Linear Equations**

6 What is the *y*-intercept of this graph?



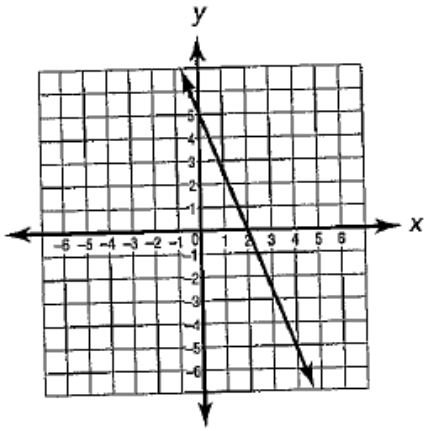
F −4
G −2
H 0
J 2

7 What would be the *y*-intercept of the graph of the line formed by this table of values?

x	y
−2	6
−1	4
0	2
1	0
2	−2

A −2
B −1
C 1
D 2

8 What is the *y*-intercept of this graph?



Answer _____

9 A table of values is made from the equation $y = 3x - 1$. Fill in the missing values.

x	y
−2	
−1	
2	
	0
	−1

10

Part A

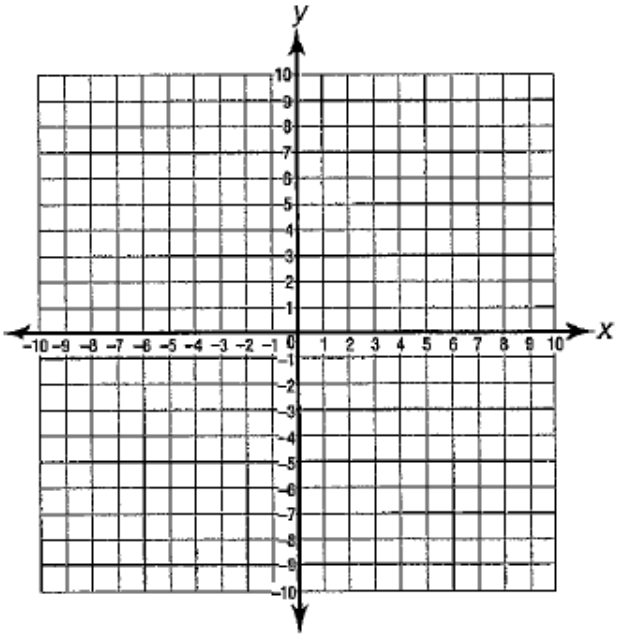
Complete the table of values to find the ordered pairs for this equation.

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

x	$y = -\frac{1}{2}x + 2$	y	(x,y)
−4			
0			
4			
8			

Part B

Graph the equation on the grid below



Part C

What is the *y*-intercept of the line you graphed in Part B?

Answer _____

Name: _____ **Date:** _____ **Topic: Writing Linear Equations**

1 What is the slope of the line whose equation is $y = 2x + 7$?

A $\frac{1}{2}$

B 2

C 3.5

D 7

2 What is the slope of the line whose equation is $y = -4x + 8$?

F -4

G $-\frac{1}{4}$

H 4

J 8

3 What is the y-intercept of the line whose equation is $y = 3x - 4$?

A -4

B -3

C 3

D 4

4 What are the coordinates of the point where the graph of the equation $y = -2x + 3$ crosses the y-axis?

F (3,0)

G (0,−2)

H (0,3)

J (−2,3)

5 What are the coordinates of the point where the graph of the equation $y = 3x - 3$ crosses the y-axis?

A (3,0)

B (0,3)

C (−3,0)

D (0,−3)

6 A line has a slope of $-\frac{3}{2}$ and a y-intercept of 6. What is the equation of the line?

F $y = -\frac{3}{2}x + 6$

G $y = -\frac{3}{2}x - 6$

H $y = 6x - \frac{3}{2}$

J $y = -6x - \frac{3}{2}$

7 A line has a slope of 5 and a y-intercept of −1. What is the equation of the line?

A $y = -1x + 5$

B $y = 5x - 1$

C $y = 5x + 1$

D $y = \frac{1}{5}x - 1$

8 What are the slope and y-intercept of the line with equation $y = 3x$?

Answer _____

9 Write the equation of a line with slope $\frac{3}{4}$ and y-intercept −10.

Answer _____

10 On the coordinate grid below, use the slope and y-intercept to graph the equation $y = \frac{5}{2}x - 4$.