TEST NAME: **Math 8 Q2 Nov 08, 2018**
TEST ID: **2665850**
GRADE: **08 - Eighth Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

Student: _____

Class: _____

Date: _____

1. **What is an equation of the line that contains the point $(-1, 4)$ and has a slope of 3?**

   A. $y = 3x + 13$

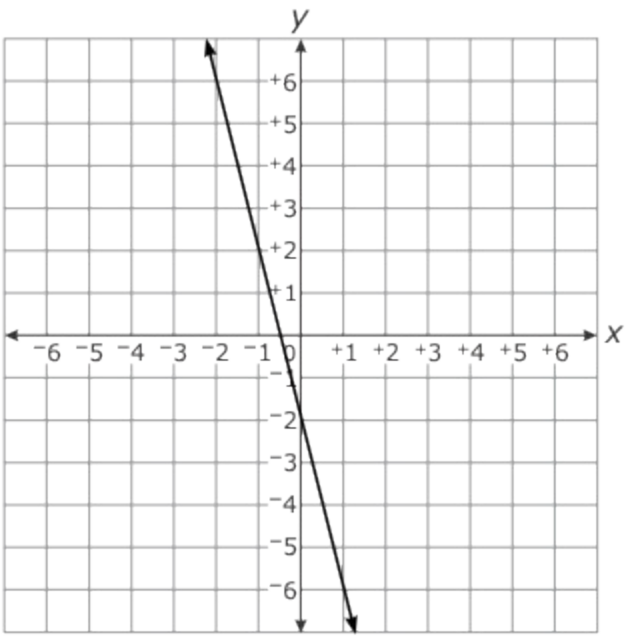
   B. $y = 3x - 13$

   C. $y = 3x + 7$

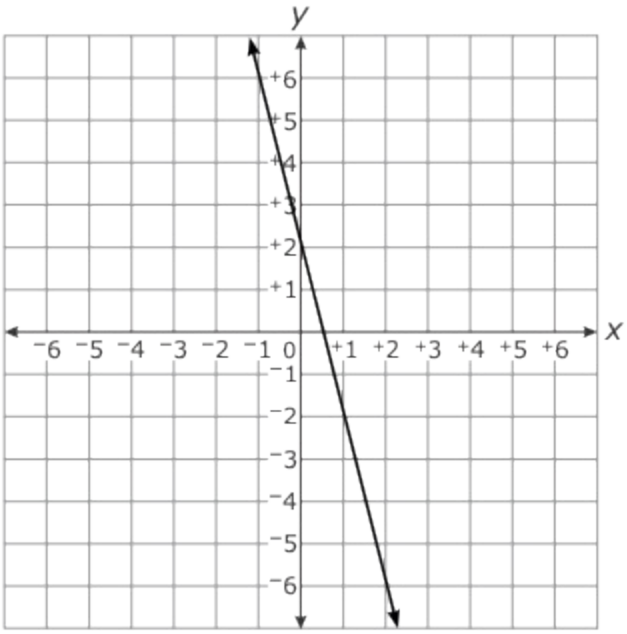
   D. $y = 3x - 7$

2. Which graph shows the line of the equation $y = {}^{-}4x + 2$?

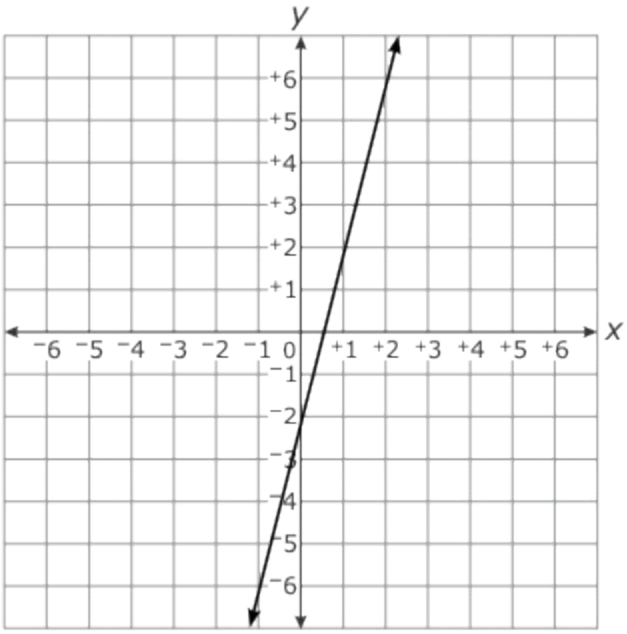
   A.



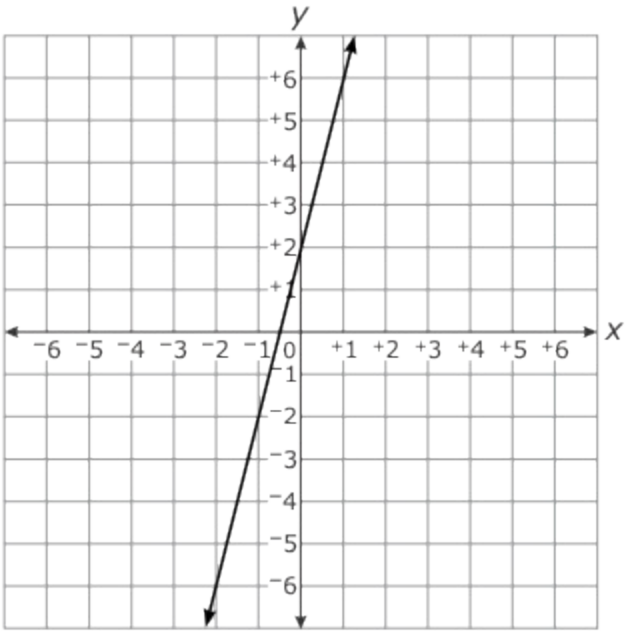
B.


y
x
+6
+5
+4
+3
+2
+1
−6 −5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5 +6
−1
−2
−3
−4
−5
−6

C.

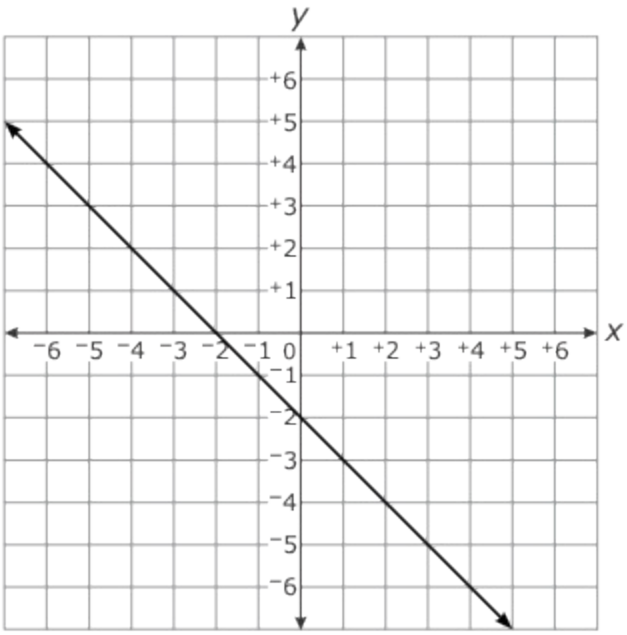

y
x
+6
+5
+4
+3
+2
+1
−6 −5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5 +6
−1
−2
−3
−4
−5
−6

D.

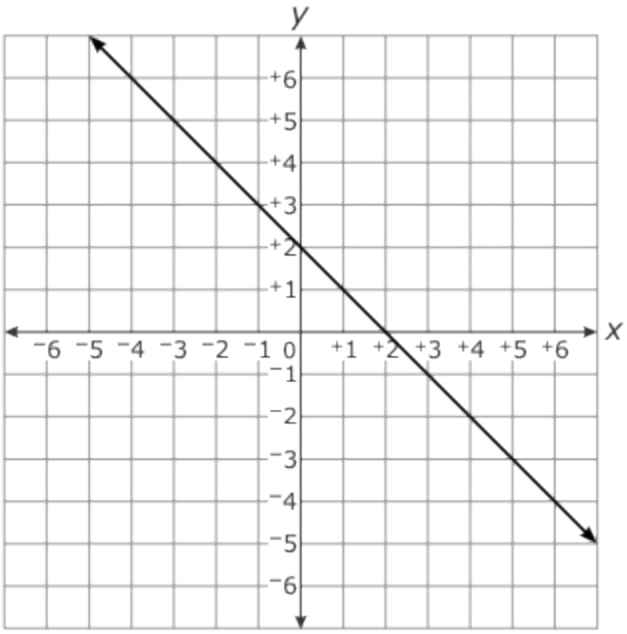


3. Which is the graph of $y = {}^{-}x - 2$?

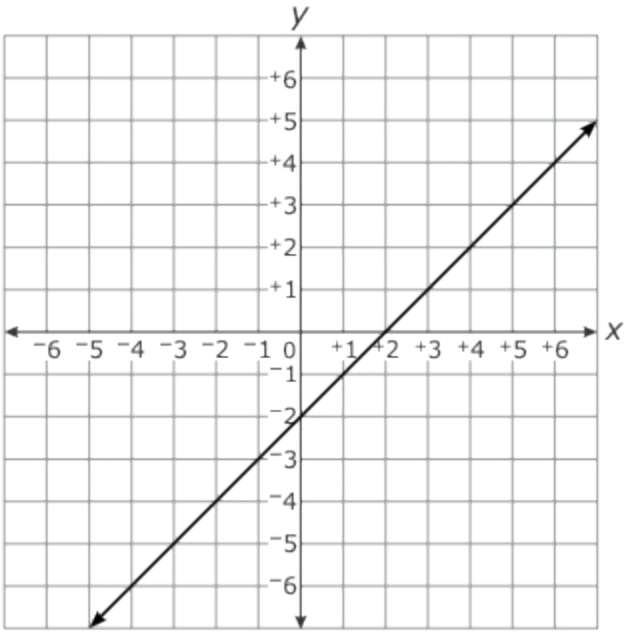
A.



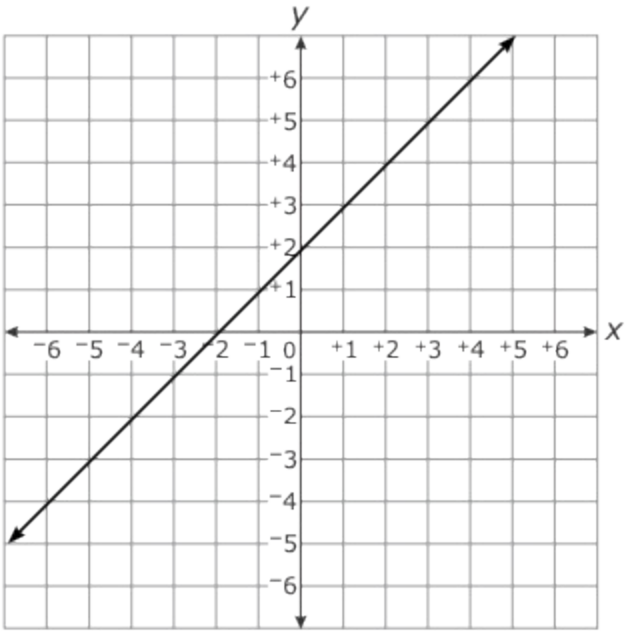
B.


y
x
+6
+5
+4
+3
+2
+1
−6 −5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5 +6
−1
−2
−3
−4
−5
−6

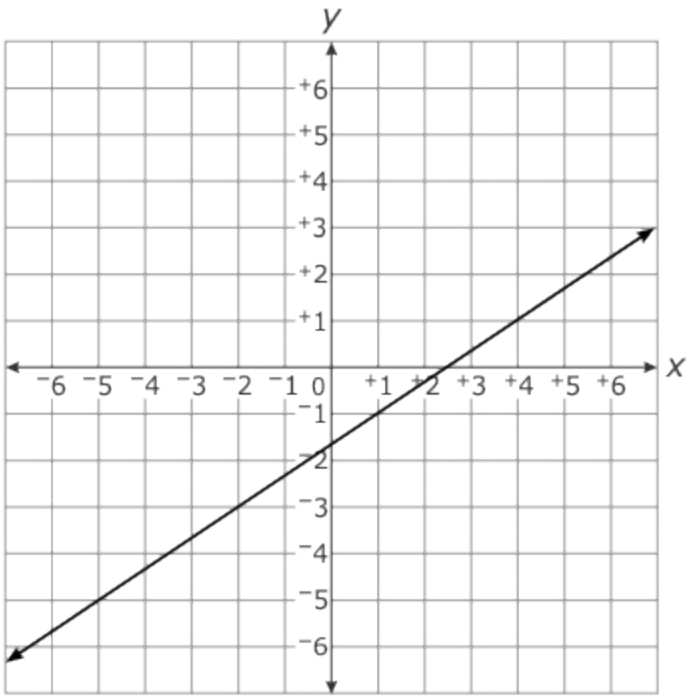
C.


y
x
+6
+5
+4
+3
+2
+1
−6 −5 −4 −3 −2 −1 0 +1 +2 +3 +4 +5 +6
−1
−2
−3
−4
−5
−6

D.



4. Which equation represents the line graphed below?



A. $y = \frac{2}{3}x - \frac{5}{3}$

B. $y = \frac{2}{3}x - \frac{1}{3}$

C. $y = \frac{3}{2}x - \frac{5}{2}$

D. $y = \frac{3}{2}x - \frac{1}{2}$

5. **Which statement about the graph of $y = 3x + 5$ is correct?**

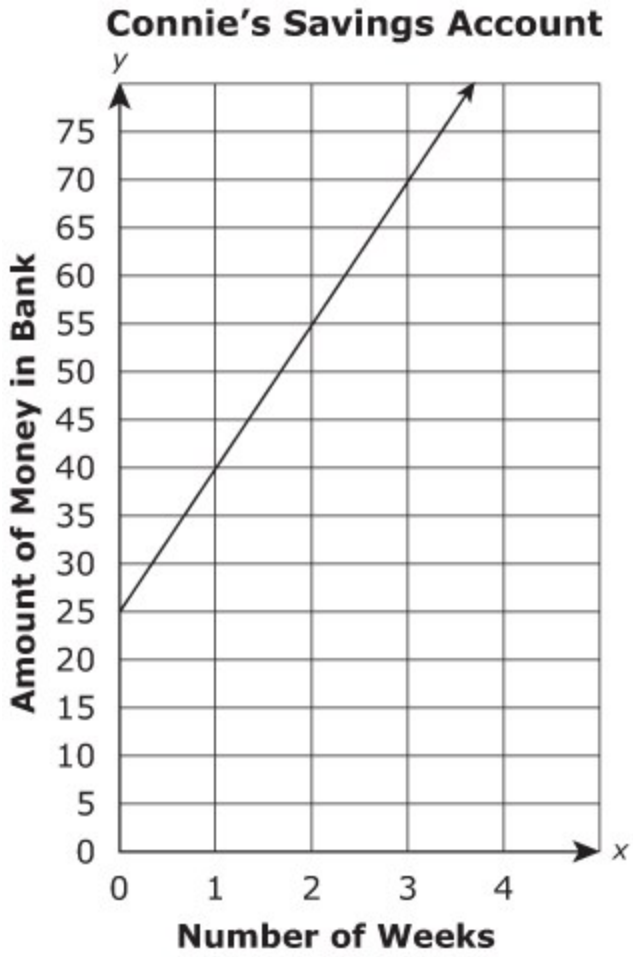
A. The line passes through the ordered pair $(3, 14)$ and has a slope of $\frac{3}{5}$.

B. The line passes through the ordered pair $(0, 5)$ and has a slope of 3.

C. The line passes through the ordered pair $(3, 0)$ and has a slope of 5.

D. The line passes through the ordered pair $(5, 20)$ and has a slope of $\frac{5}{3}$.

6. Use the graph below to answer the question.



Which statement is true about Connie's savings account?

A. Connie started with $25 in her savings account and saved $40 each week.

B. Connie started with $25 in her savings account and saved $15 each week.

C. Connie started with $15 in her savings account and saved $25 each week.

D. Connie started with $0 in her savings account and saved $25 each week.

7. Which situation is modeled by the equation $y = -15x + 300$?

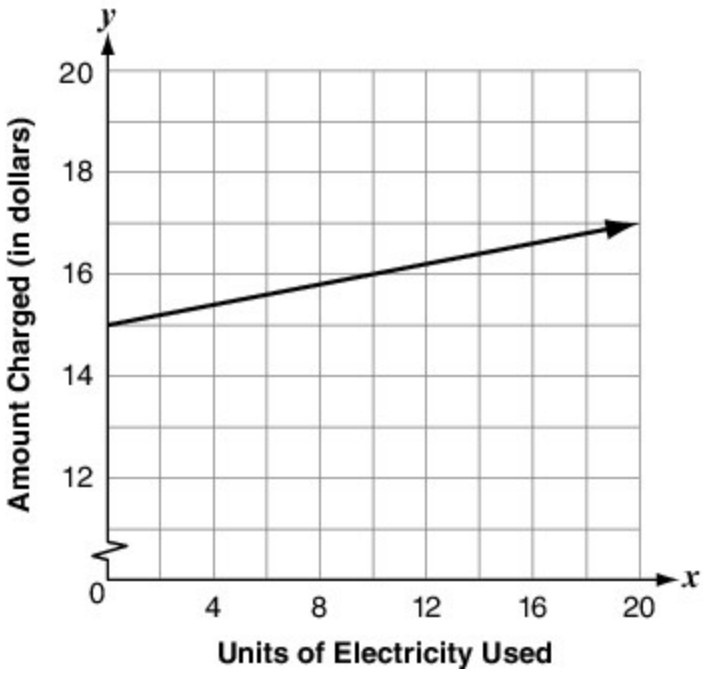
A. Maria has $300 in an account and deposits $15 each week.

B. A car uses 15 gallons of gas to travel a total distance of 300.

C. There are 300 people at a football game and 15 of the people leave the game each hour.

D. A scuba diver starts 300 feet below the water's surface and dives down another 15 feet every minute.

8. Jeana graphs the information from one of her monthly electricity bills. This bill is representative of the charges from other months throughout the year. The graph below shows the amount charged monthly in relation to the electricity used according to Jeana's electricity bill.



Which statement is **true** of Jeana's monthly electricity bill?

A. For every 15 units of electricity used monthly, the charge is $0.10.

B. For each unit of electricity used, the charge is $10 plus $15 for the first month.

C. Jeana has to pay $15 for each unit of electricity used and a $0.10 fixed monthly charge.

D. Jeana has to pay $1 for every 10 units of electricity used plus a $15 fixed monthly charge.

9. Sean and Julie are landscapers. Each person charges a one-time fee plus an hourly fee. Sean uses the equation $y = 20x + 30$ to determine the charge, *y*, in dollars for working *x* hours. Julie uses this table to determine the charge, *y*, for working *x* hours.

Charges for Julie

Number of Hours Worked	0	1	2	3	4
Total Charge in Dollars	26	48	70	92	114

Which statement is true for these two landscapers?

A. Sean charges a greater one-time fee because the equation shows a greater rate of change than the table.

B. Julie charges a greater one-time fee because the table shows a greater rate of change than the equation.

C. Sean charges a greater one-time fee because the equation shows a greater *y*-intercept than the table.

D. Julie charges a greater one-time fee because the table shows a greater *y*-intercept than the equation.

10. **The graph of a linear equation has a slope of -2 and passes through point (−4, 3). What is the equation of the line?**

A. $y = -2x - 5$

B. $y = -2x + 5$

C. $y = -2x - 2$

D. $y = -2x + 2$