

TEST NAME: **Math 8 online no 3**  
TEST ID: **2680940**  
GRADE: **08 - Eighth Grade**  
SUBJECT: **Mathematics**  
TEST CATEGORY: **My Classroom**

Student: \_\_\_\_\_

Class: \_\_\_\_\_

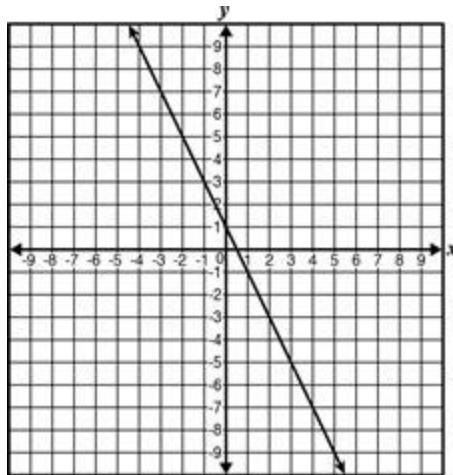
Date: \_\_\_\_\_

1. Which two functions meet the following criteria?

- The  $y$ -intercepts have a difference of 3.
- The slopes are both negative.

A.

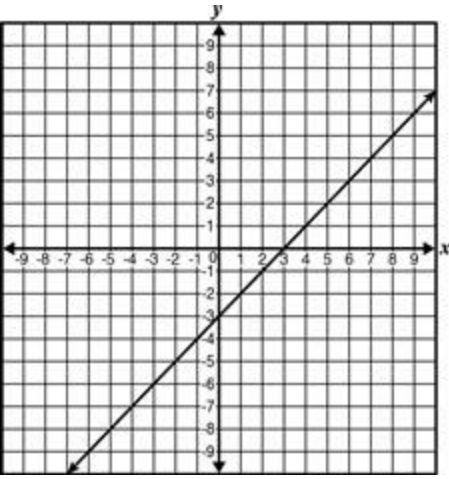
$x$	$y$
-2	-1
0	-2
2	-3



B. The value of  $y$  is equal to six less than 4 times the value of  $x$ .

$x$	$y$
0	-3
1	-1
2	1
3	3

C.

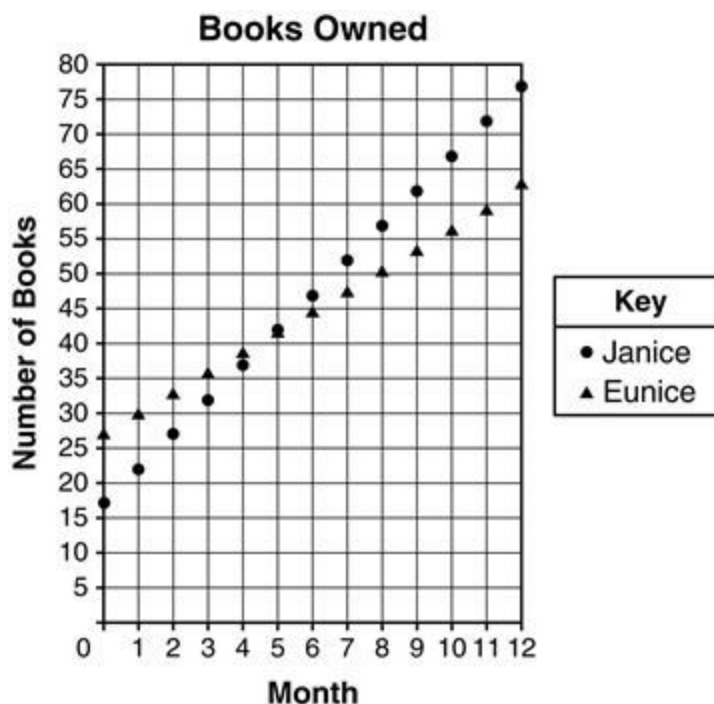


$$y = 4x - 1$$

D.  $y = -3x - 3$

$x$	$y$
-4	3
-2	0
0	-3
2	-6

2. Janice owned 17 books and bought 5 new books each month. Eunice owned 27 books and bought 3 new books each month. The graph below shows the number of books each student owned over a 12-month period.



Based on this graph, which statement is true?

- A. Each student owned 42 books on the fifth month.
- B. The students had 42 books altogether on the fifth month.
- C. Each student owned 27 books on the second month.
- D. The students had 27 books altogether before the first month.

3. Alice compared the graphs of two functions.

- The first function was  $y = 3x + 4$ .
- The second function fits the values in the table below.

$x$	$y$
2	17
5	32
8	47
11	62

What is the distance between the  $y$ -intercepts of the two functions?

- A. 1
- B. 2
- C. 3
- D. 4

4. Use Function S and Function T to answer the question.

<b>Function S</b>		<b>Function T</b>
<b><i>x</i></b>	<b><i>y</i></b>	<b><math>y = 4x + 6</math></b>
-6	-4	
-2	2	
2	8	
6	14	

Which statement is true about the Functions S and T?

- A. The slope of Function S is equal to the slope of Function T.
- B. The slope of Function S is steeper than the slope of Function T.
- C. The slope of Function S is not as steep as the slope of Function T.
- D. The relationship between the slopes of Functions S and T cannot be determined.

5. Which table corresponds to the function  $y = -3x + 11$ ?

A.

<b>x</b>	<b>y</b>
0	11
1	8
2	-10

B.

<b>x</b>	<b>y</b>
0	11
1	14
2	5

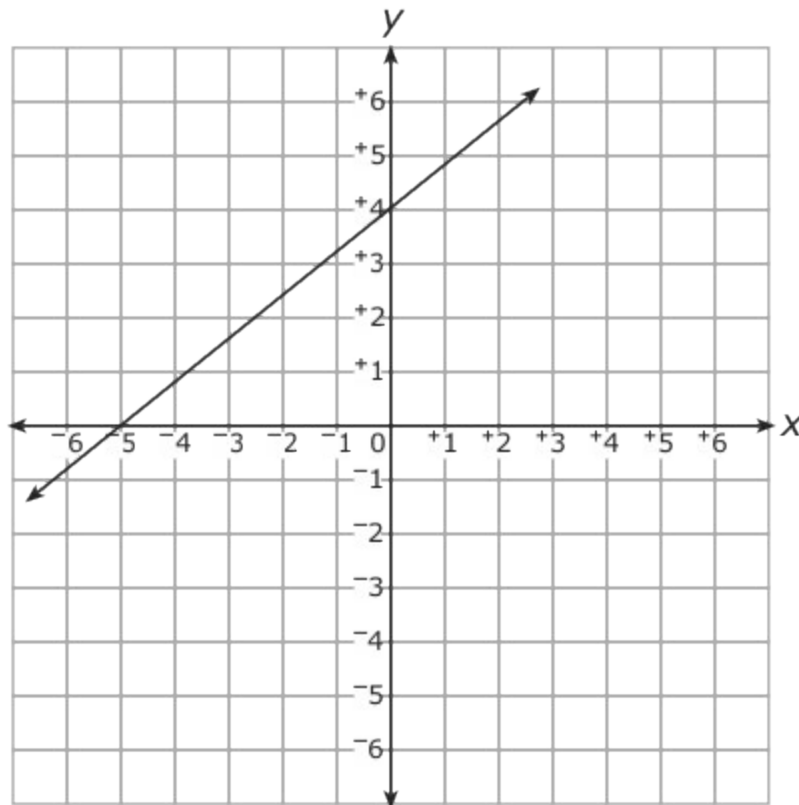
C.

<b>x</b>	<b>y</b>
0	11
1	8
2	5

D.

<b>x</b>	<b>y</b>
0	11
1	9
2	-5

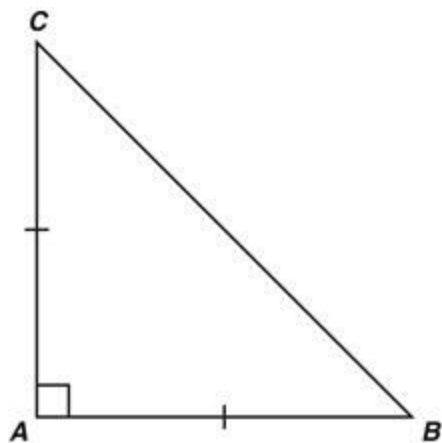
6. Which is an equation of the line graphed below?



- A.  $y = \frac{5}{4}x + 4$
- B.  $y = \frac{4}{5}x + 4$
- C.  $y = -\frac{4}{5}x + 4$
- D.  $y = -\frac{5}{4}x + 4$



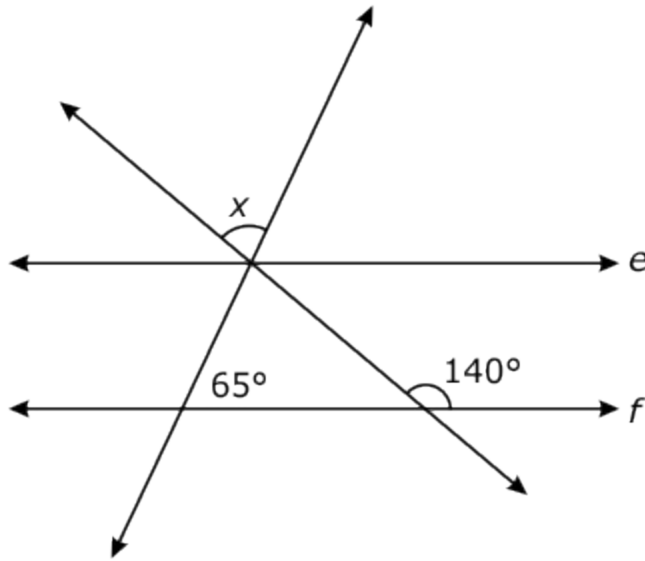
7. Suzanne drew the triangle below on her poster.



What is the measure of  $\angle ABC$ ?

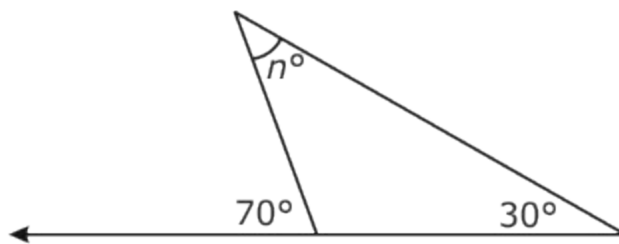
- A.  $30^\circ$
- B.  $45^\circ$
- C.  $60^\circ$
- D.  $90^\circ$

8. In the figure below, lines  $e$  and  $f$  are parallel.



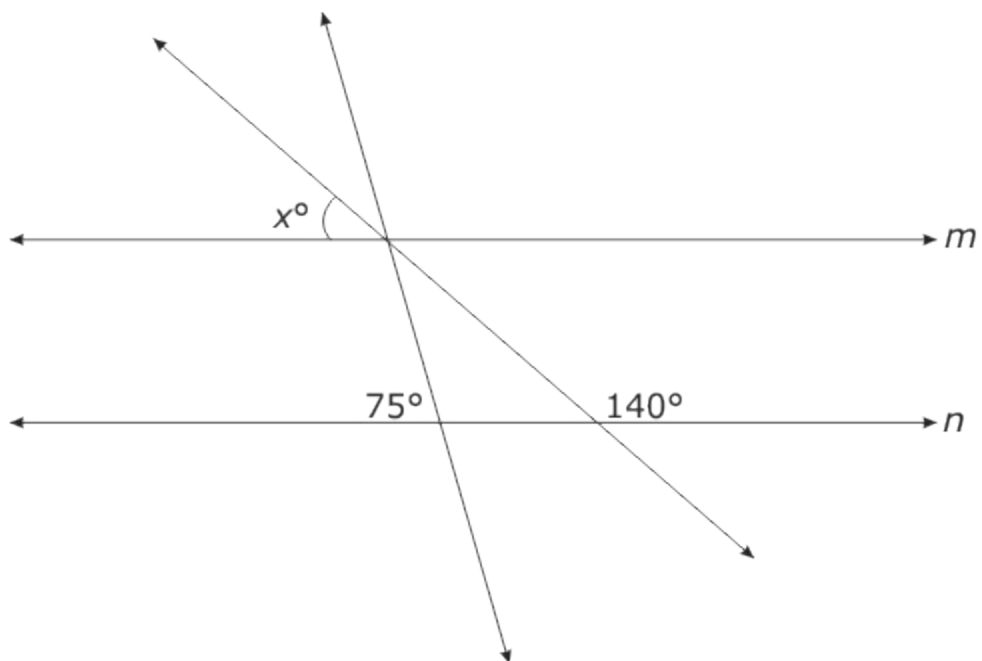
What is the measure of  $\angle x$ ?

- A.  $40^\circ$
  - B.  $55^\circ$
  - C.  $75^\circ$
9. What is the value of  $n$  in the figure below?



- A. 40
- B. 60
- C. 80

10. In the figure below, lines  $m$  and  $n$  are parallel.



What is the measure of  $\angle x$ ?

- A.  $40^\circ$
- B.  $35^\circ$
- C.  $20^\circ$
- D.  $15^\circ$