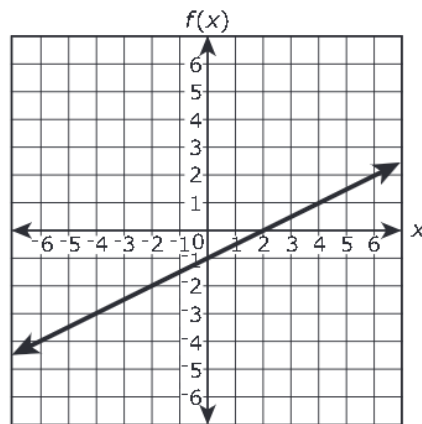


Algebra 1 Quick Quiz 10232023

1

The graph of the function  $f(x) = -1 + 0.5x$  is shown on the coordinate plane.  
For what value of  $x$  does  $f(x) = 0$ ?

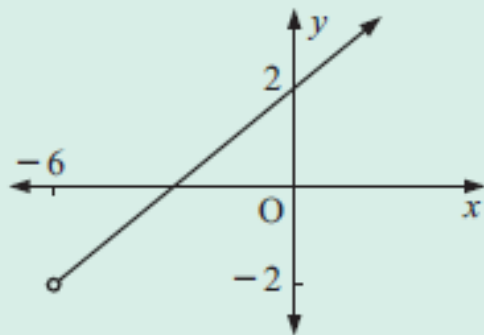


2.

For the following graphs, determine:

**i** the range and domain      **ii**

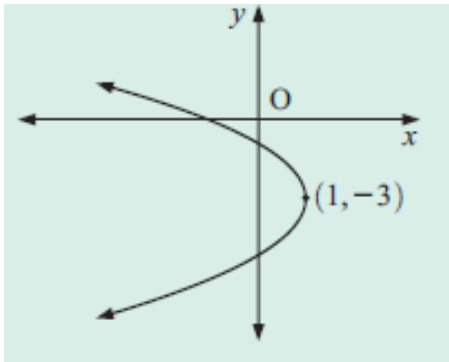
**a**



3.

For the following graphs, determine:

- i** the range and domain      **ii** whether it is the graph of a function



4.

Which expression is a factor of

$$4x^2 + 10x + 6?$$

- A  $2(x+3)$
- B  $2x+3$
- C  $4(x+3)$
- D  $4x+3$

5.

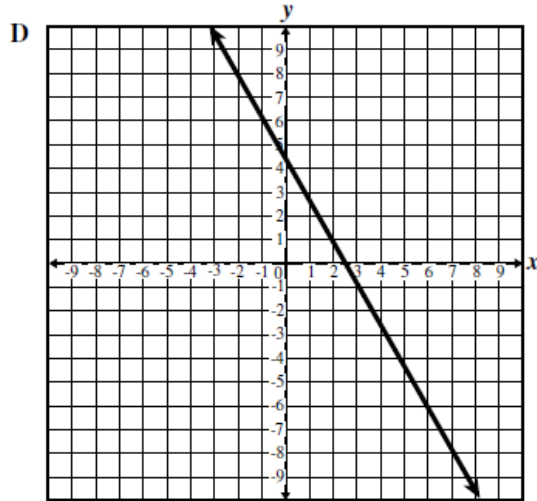
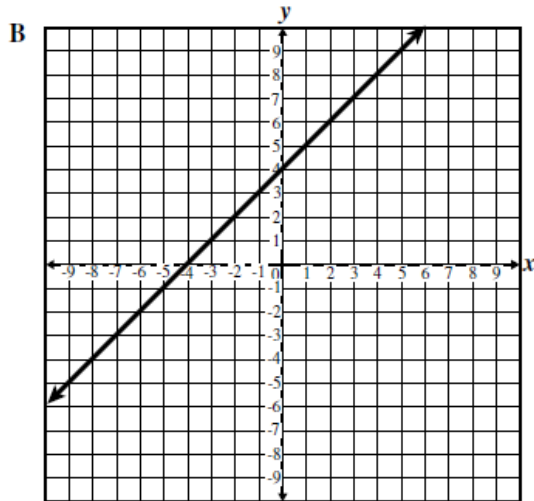
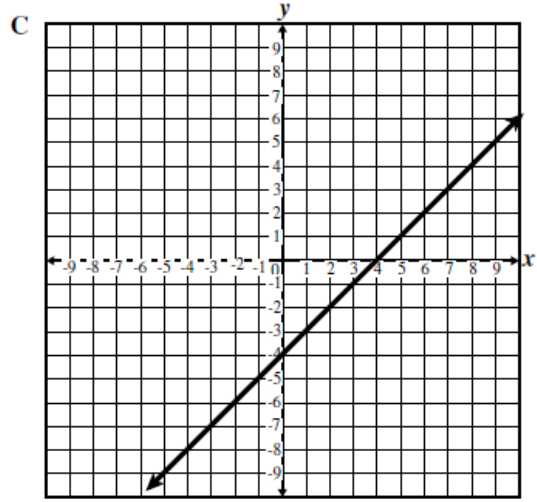
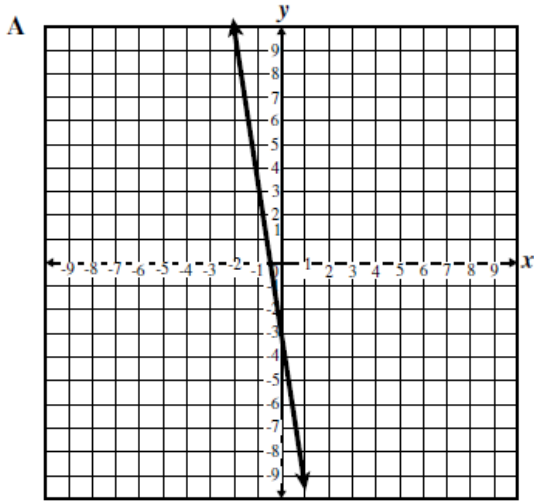
If  $f(x) = 5x - 4$ , find:

**a**  $f(-3)$

**b**  $f(x - 1)$

6.

Which graph shows the line that goes through the point  $(3, -1)$  and has a  $y$ -intercept of  $-4$ ?



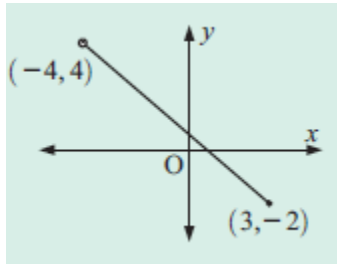
7.

Which expression is equivalent to  $(2x + 4) - (3x^2 + 2x - 1)$ ?

- A  $-3x^2 + 3$
- B  $-3x^2 + 5$
- C  $-3x^2 + 4x + 3$
- D  $-6x^3 - 16x^2 - 6x + 4$

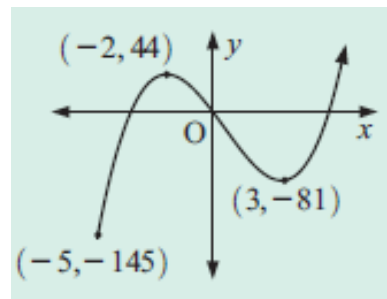
8.

For these functions, find the domain and range:



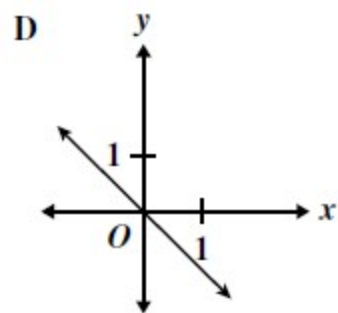
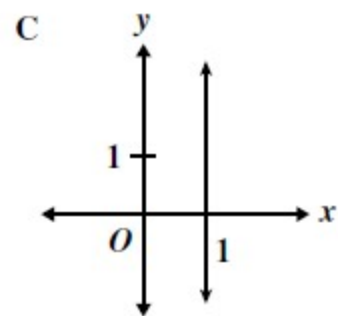
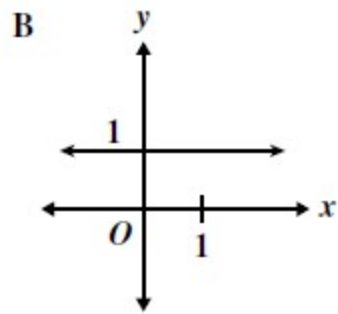
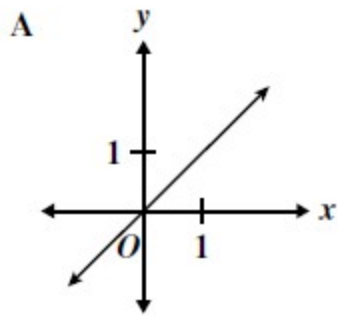
9.

For these functions, find the domain and range:



10.

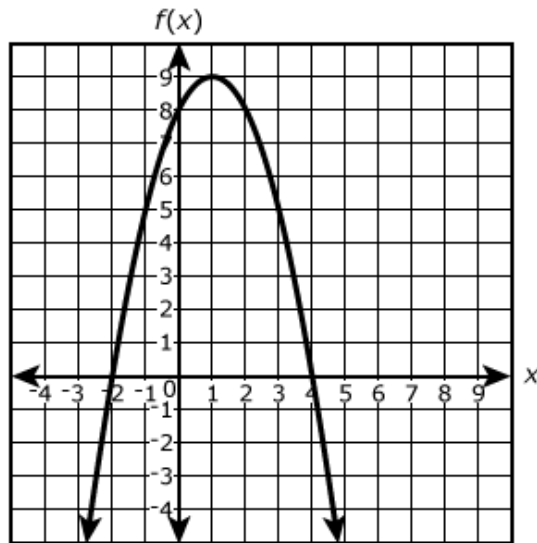
Which of the following is the graph of a line with a slope of 1?



BONUS

11.

The figure shows a graph of the function  $f(x)$  in the  $xy$ -coordinate plane.



A second function  $g$  is defined by  $g(x) = -3x + 2$ .

Select the correct phrase in each drop-down menu to complete the sentence.

$f(2)$  Choose ...  
is less than  
is greater than  
is equal to  $g(2)$  and  $f(-2)$  Choose ...  
is less than  
is greater than  
is equal to  $g(-2)$ .