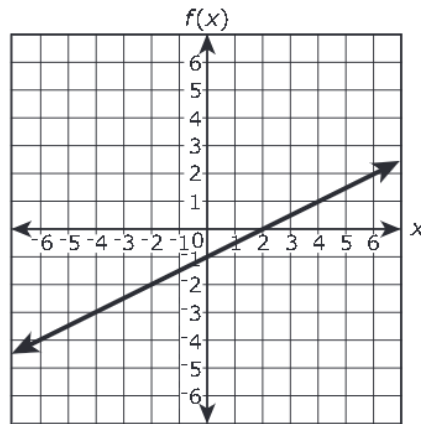Algebra 1 Quick Quiz 10242024

1

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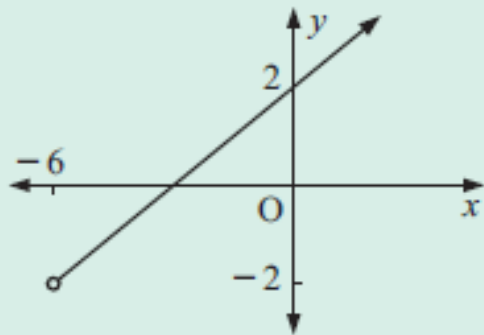

2.

For the following graphs, determine:
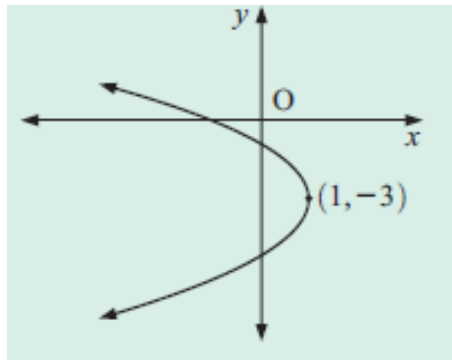 **i** the range and domain   **ii**
  a

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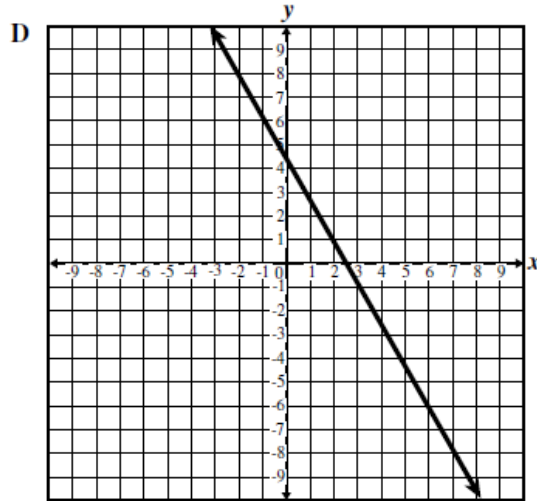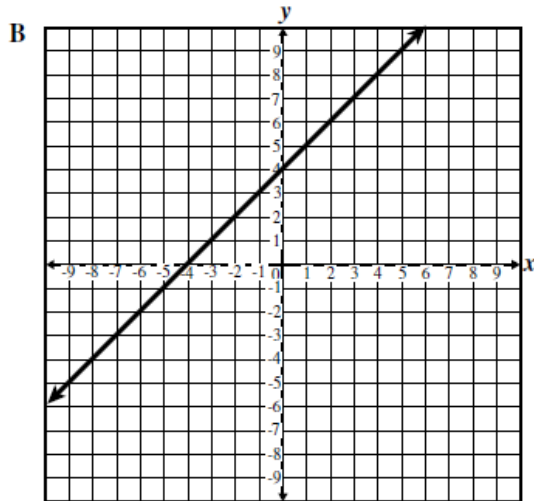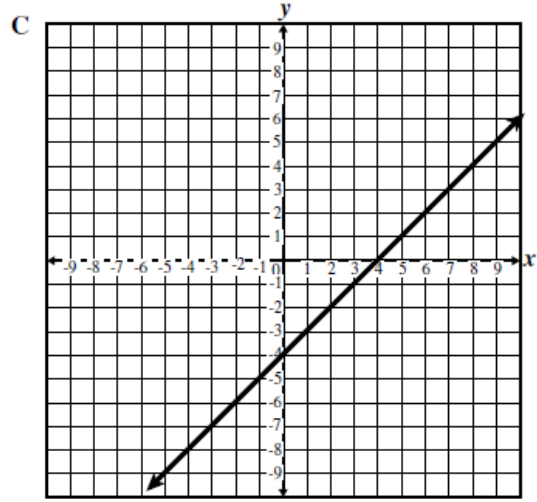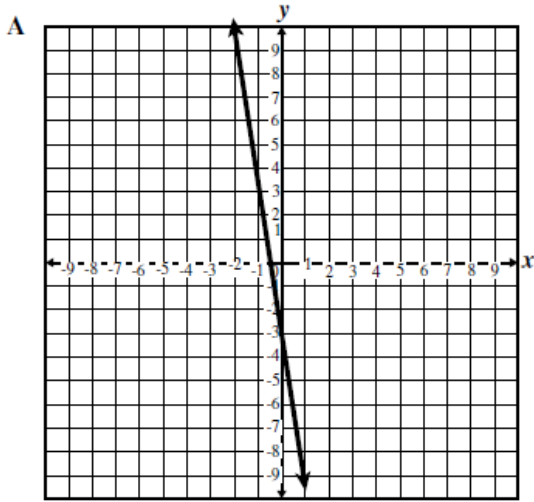$4x^2 + 10x + 6$?

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?
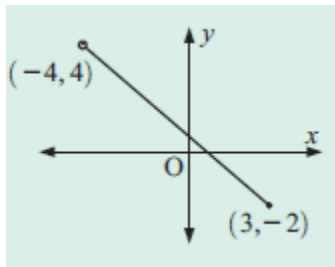
A

C

B

D

7.

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

A $-3x^2 + 3$
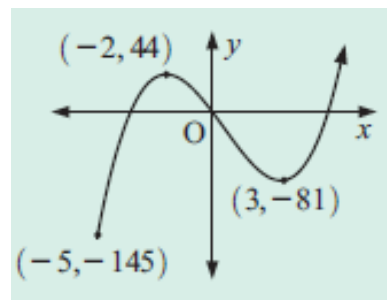B $-3x^2 + 5$
C $-3x^2 + 4x + 3$
D $-6x^3 - 16x^2 - 6x + 4$
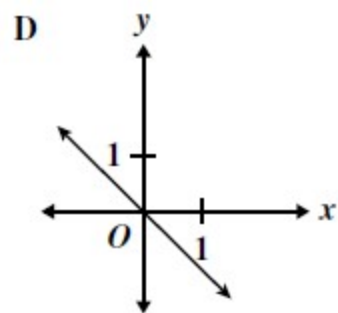
8.

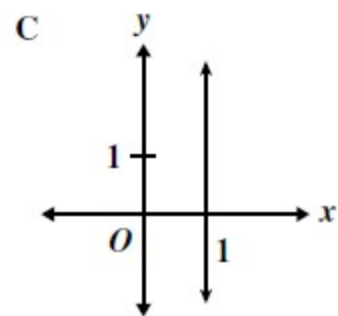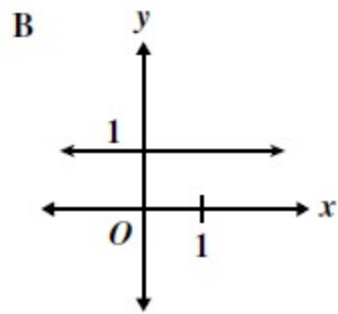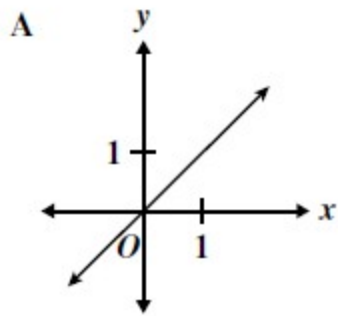For these functions, find the domain and range:

9.

For these functions, find the domain and range:

10.

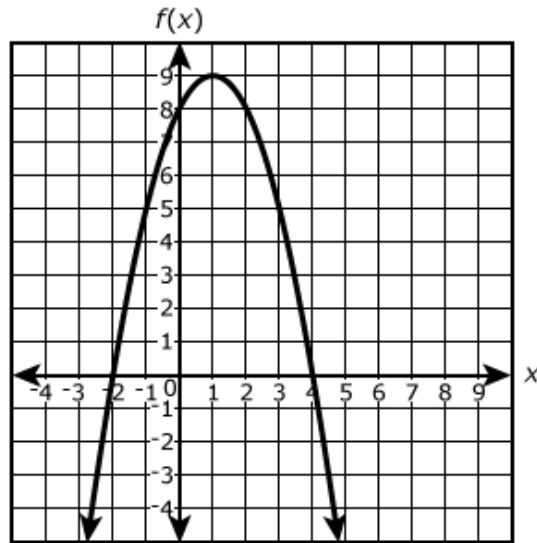**Which of the following is the graph of a line with a slope of 1?**

A

B

C

D

BONUS

11.

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

f(x)

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 | $g(-2)$.