## Function Tables

Write the rule as an equation in terms of 'x' for each of the function table:

$y = x - 3$

| x | y |
|---|---|
| -3 | -6 |
| -1 | -4 |
| 2 | -1 |
| 4 | 1 |
| 5 | 2 |

$y = x + 5$

| x | y |
|---|---|
| -1 | 4 |
| 2 | 7 |
| 4 | 9 |
| 6 | 11 |
| 7 | 12 |

$y = -4x$

| x | y |
|---|---|
| -2 | 8 |
| 0 | 0 |
| 1 | -4 |
| 3 | -12 |
| 5 | -20 |

$y = 2x + 1$

| x | y |
|---|---|
| -4 | -7 |
| -1 | -1 |
| 0 | 1 |
| 4 | 9 |
| 8 | 17 |

$y = 9x - 1$

| x | y |
|---|---|
| -5 | -46 |
| -2 | -19 |
| 1 | 8 |
| 3 | 26 |
| 4 | 35 |

$y = \dfrac{x}{3}$

| x | y |
|---|---|
| -6 | -2 |
| -3 | -1 |
| 0 | 0 |
| 6 | 2 |
| 9 | 3 |

Choose the correct table that matches the equation. Write the letter of the table on the line.

1.   $y = -2x$   _____A_____

A

| x | y |
|---|---|
| 0 | 0 |
| 1 | -2 |
| 2 | -4 |
| -1 | 2 |

B

| x | y |
|---|---|
| 0 | 2 |
| 1 | -2 |
| 2 | 4 |
| -1 | -2 |

C

| x | y |
|---|---|
| 0 | 0 |
| 1 | 2 |
| 2 | 4 |
| -1 | 2 |

2.   $y = x - 5$   _____B_____

A

| x | y |
|---|---|
| 0 | 5 |
| 1 | -2 |
| 2 | -1 |
| 3 | 0 |

B

| x | y |
|---|---|
| 0 | -5 |
| 1 | -4 |
| 2 | -3 |
| 3 | -2 |

C

| x | y |
|---|---|
| 0 | -5 |
| 1 | 4 |
| 2 | -3 |
| 3 | 8 |

3.   $y = -3x + 2$   _____C_____

A

| x | y |
|---|---|
| -1 | -5 |
| 0 | 2 |
| 1 | -1 |
| 2 | 8 |

B

| x | y |
|---|---|
| -1 | 5 |
| 0 | 2 |
| 1 | -1 |
| 2 | 4 |

C

| x | y |
|---|---|
| -1 | 5 |
| 0 | 2 |
| 1 | -1 |
| 2 | -4 |

$-3(2) + 2$

$-6 + 2$

$-4$

Match the correct equation with the table. Write the letter of the equation on the line.

4.

| x | y |
|---|---|
| -1 | -6 |
| 0 | -4 |
| 2 | 0 |
| 3 | 2 |

_____B_____

A.  $y = -2x - 4$

B.  $y = 2x - 4$

C.  $y = \frac{1}{2}x + 4$

5.

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

_____B_____

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

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

C.  $y = -x + 3$

Match each table with the graph that represents the ordered pairs in the table. Write the letter of the graph on the line.

6.  _____B_____

| x | y |
|---|---|
| -2 | 0 |
| 0 | 4 |
| -1 | 2 |
| -4 | -4 |

A



B



C

7. _**B**_

| x | y |
|---|---|
| -1 | -4 |
| 0 | -3 |
| 1 | -2 |
| -2 | -5 |

A



B



C
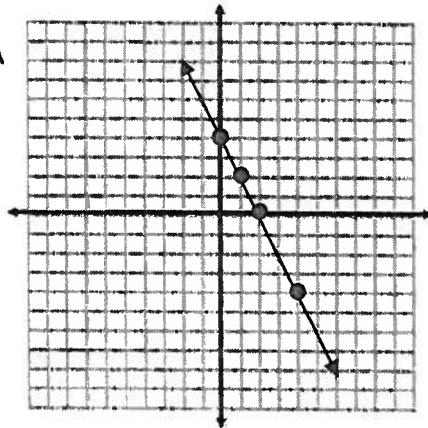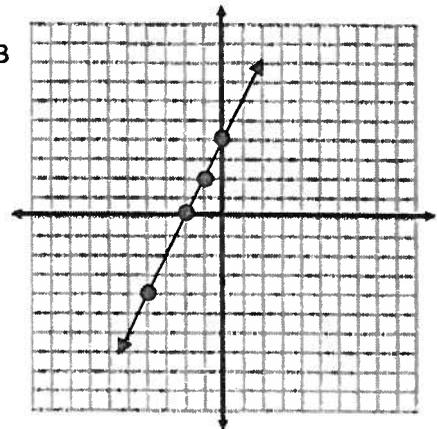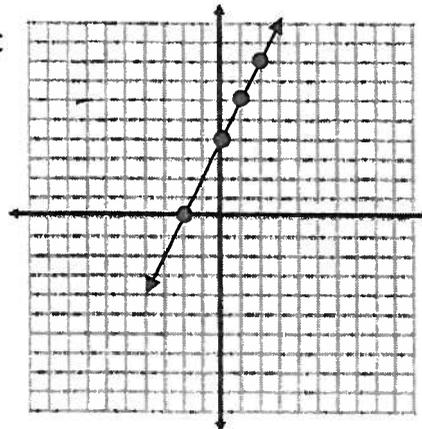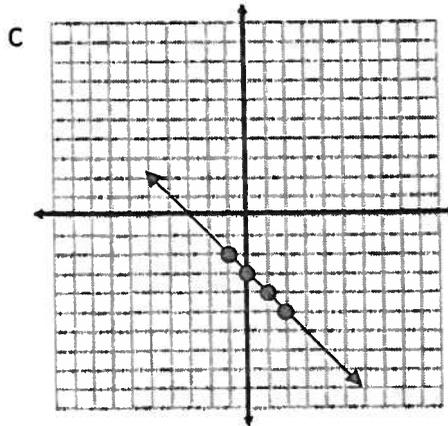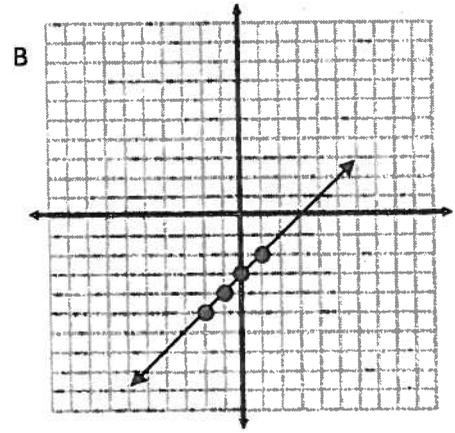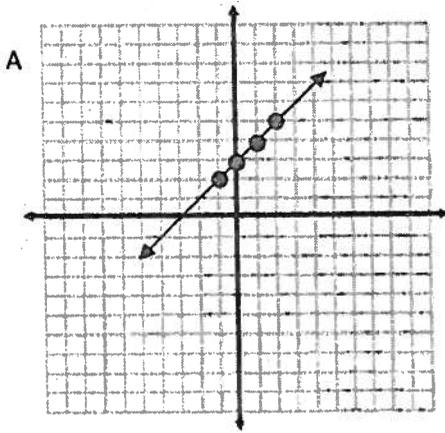


Match the table that correctly represents the line on the graph.

8.

C
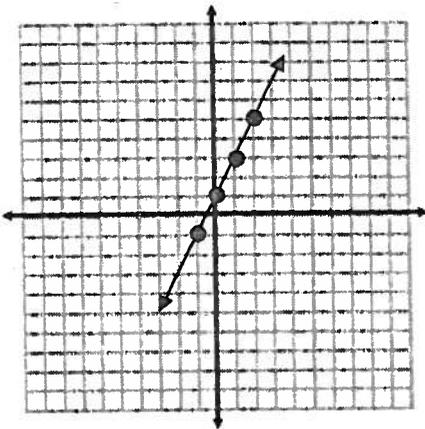


A

| x | y |
|---|---|
| -2 | 5 |
| -1 | 3 |
| 0 | 1 |
| 1 | -1 |

B

| x | y |
|---|---|
| -2 | 5 |
| -1 | -3 |
| 0 | -1 |
| 1 | 1 |

(C)

| x | y |
|---|---|
| 2 | 5 |
| 1 | 3 |
| 0 | 1 |
| -1 | -1 |

9.

C
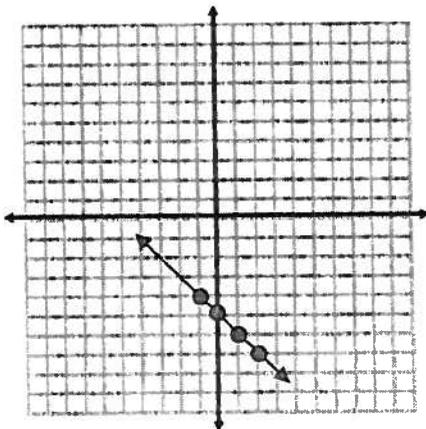


A

| x | y |
|---|---|
| 2 | -7 |
| -1 | 4 |
| 0 | -5 |
| 1 | 6 |

B

| x | y |
|---|---|
| 2 | 7 |
| -1 | -4 |
| 0 | -5 |
| 1 | -6 |

(C)

| x | y |
|---|---|
| 2 | -7 |
| -1 | -4 |
| 0 | -5 |
| 1 | -6 |

Write the function rule for the following tables.

**10.**

| x | y |
|----|----|
| 2 | 9 |
| 5 | 12 |
| 8 | 15 |
| 10 | 17 |

$f(x) = x + 7$

**11.**

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

$f(x) = 2x - 2$

**12.**

| x | y |
|----|----|
| -1 | -8 |
| -2 | -13 |
| 1 | 2 |
| 2 | 7 |

$f(x) = 5x - 3$

**13.**

| x | y |
|----|----|
| 4 | 8 |
| 5 | 9 |
| 8 | 12 |
| 10 | 14 |

$g(x) = x + 4$

**14.**

| x | y |
|----|----|
| -1 | 6 |
| 2 | -12 |
| 4 | -24 |
| 6 | -36 |

$g(x) = -6x$

**15.**

| x | y |
|----|----|
| 1 | 1 |
| 2 | -1 |
| 3 | -3 |
| 4 | -5 |

$f(x) = -2x + 3$

**16.** Choose the correct description for the input-output table to the right?

A.  add 9

Ⓑ  multiply by 3, then add 1

C.  multiply by 3

D.  multiply by 4, then subtract 1

| INPUT | OUTPUT |
|-------|--------|
| 4 | 13 |
| 6 | 19 |
| 9 | 28 |
| 12 | 37 |

**17.** Choose the correct description for the input-output table to the right?

A.  add 2

B.  multiply by 4

C.  add 5

Ⓓ  multiply by 4, then add 2

| INPUT | OUTPUT |
|-------|--------|
| 1 | 6 |
| 2 | 10 |
| 3 | 14 |
| 4 | 18 |

18. Which equation correctly matches the graph below?     _____ß_____



A.   $y = -2x + 4$

Ⓑ   $y = -\frac{1}{2}x + 4$

~~C.~~   $y = 2x - 4$

(graph labels: (0,4), (2,3))
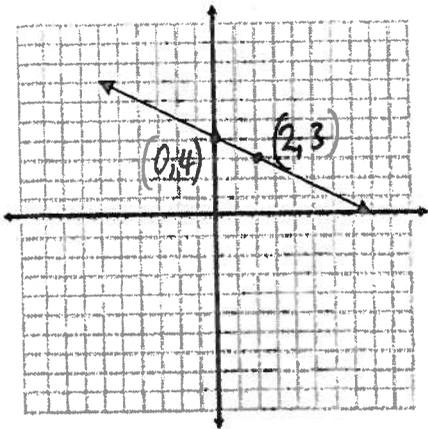
19. Which equation correctly matches the graph below?     _____C_____



A.   $y = 3x - 2$

B.   $y = -3x + 2$

Ⓒ   $y = -3x - 2$

(graph labels: (0,-2), (1,-5))
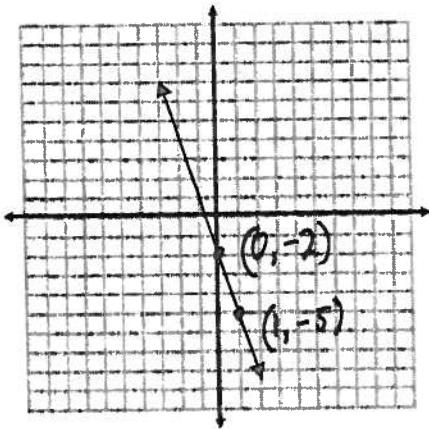
20. Which graph correctly shows the line of the given equation?     _____ß_____

$y = 5x + 2$

$y = 5(0) + 2$
$y = 2$

✗



(0,-2)

✓
B

$y = 5(-1) + 2$
$y = -3$



(0,2)
(-1,-3)

$y = 5(1) + 2$
$y = 7$

✗



(0,2)
(1,7)