

THE LINK

Communicating what we know about: lines

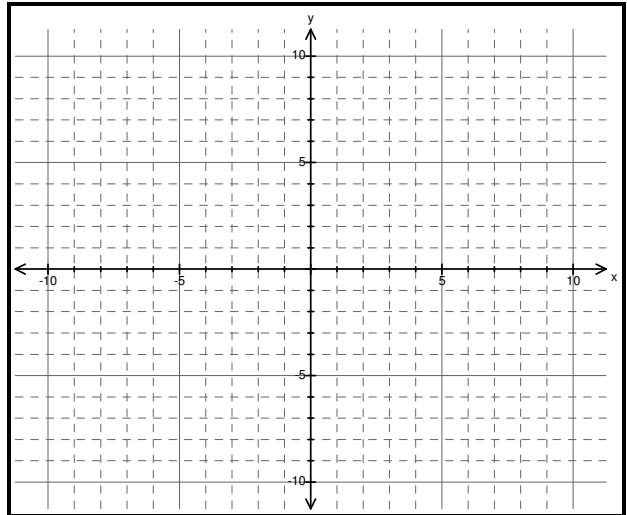
TABLE OF VALUES

The table below shows a relationship between the values of x and y .

x	y
-7	-10
-2	-5
3	0
8	5

GRAPH

Graph the points given in the x - y table on the axes below.



EQUATION

Which equation describes the relationship?

- A $y = x - 3$
- B $y = x + 3$
- C $y = -x - 3$
- D $y = -x + 3$

COMMUNICATION

1. Draw a line through the points you graphed on the grid above.
2. What is the y -intercept of the line?
3. What is the x -intercept of the line?
4. Draw a line parallel to the one on the grid above and write its equation. Explain how you know the lines are parallel.

Based on 2009 Pennsylvania Assessment Item Grade 8 Standard D.4.1