

Name

Directions: Show your work for credit. Use your notes and textbook for support

1 Lily wrote the following equation on the board.

$$y = 3x - 4$$

Which table shows the pattern from Lily's equation?

A

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

B

x	-1	0	1	2
y	1	-4	7	10

C

x	-1	0	1	2
y	-7	0	2	4

D

x	-1	0	1	2
y	-7	-4	-1	2

2 A tank holding water is draining at a constant rate of 5 gallons per minute. At the instant when you begin regularly measuring its volume, $t = 0$, it contains 55 gallons of water.

Complete the table of values below based on this scenario.

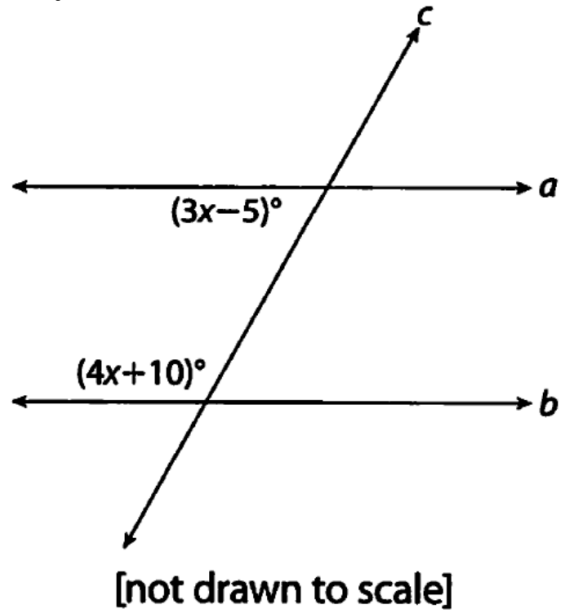
Time, t, in minutes	Volume, V, in gallons
0	55
1	50
2	45

Write an algebraic function that could represent the data above.

Answer $y =$ _____

3

In the diagram below, line a and line b are parallel.



Solve for x .

Show your work.

Answer $x =$ _____

4 Graph the equations below.

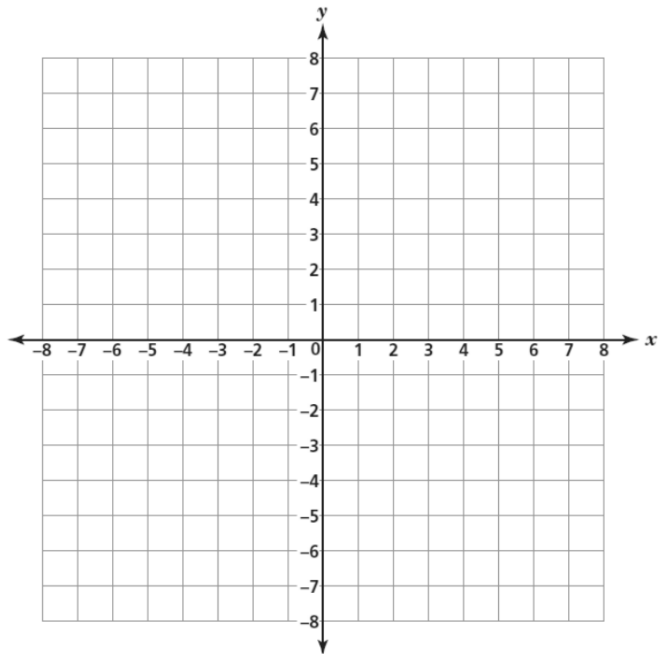
$$\begin{cases} y = 2x - 4 \\ y = -x + 5 \end{cases}$$

- Graph the first line using the slope and y -intercept.

slope = _____ y -intercept = _____

- Graph the second line using the slope and y -intercept.

slope = _____ y -intercept = _____



- What point shows the solution to the system of equations? _____