

Activator

Solve for y in both equations.

$$Y + 5 = -2$$

$$\quad -5 \quad -5$$

$$Y = -7$$

$$Y + 5 = -2x$$

$$\quad -5 \quad -5$$

$$Y = -2x - 5$$

Is 5 and $2x$ like terms? No

Today's Objective

Unit 4
Lesson 5

Students will be able to
graph in standard form.





Today's New (1 of 4)

Solve for y. Why? To use the

$$3y = 18 - 6x$$
$$\div 3 \quad \div 3$$

calculator to graph.

What is the slope ? $M = \underline{-2}$

$$y = 6 - 2x$$

What is the y-intercept? $B = \underline{6}$

$y = B + mx$ is the same as $y = mx + B$.

Why? The commutative property switches the order.

Today's New Vocab (2 of 4)

Solve for y and make a table.

$$6x + 3y = 18$$

$$\begin{array}{r} -6x \\ 6x + 3y = 18 \\ \hline \end{array}$$

Page #17
Lesson 4.5

$$3y = 18 - 6x$$

$$\begin{array}{r} \div 3 \\ 3y = 18 - 6x \\ \hline \end{array}$$

$$y = 6 - 2x$$

$$y = -2x + 6$$

x	y
0	6
1	4
2	2
3	0

Today's New Vocab (3 of 4)

Graph the following equation.

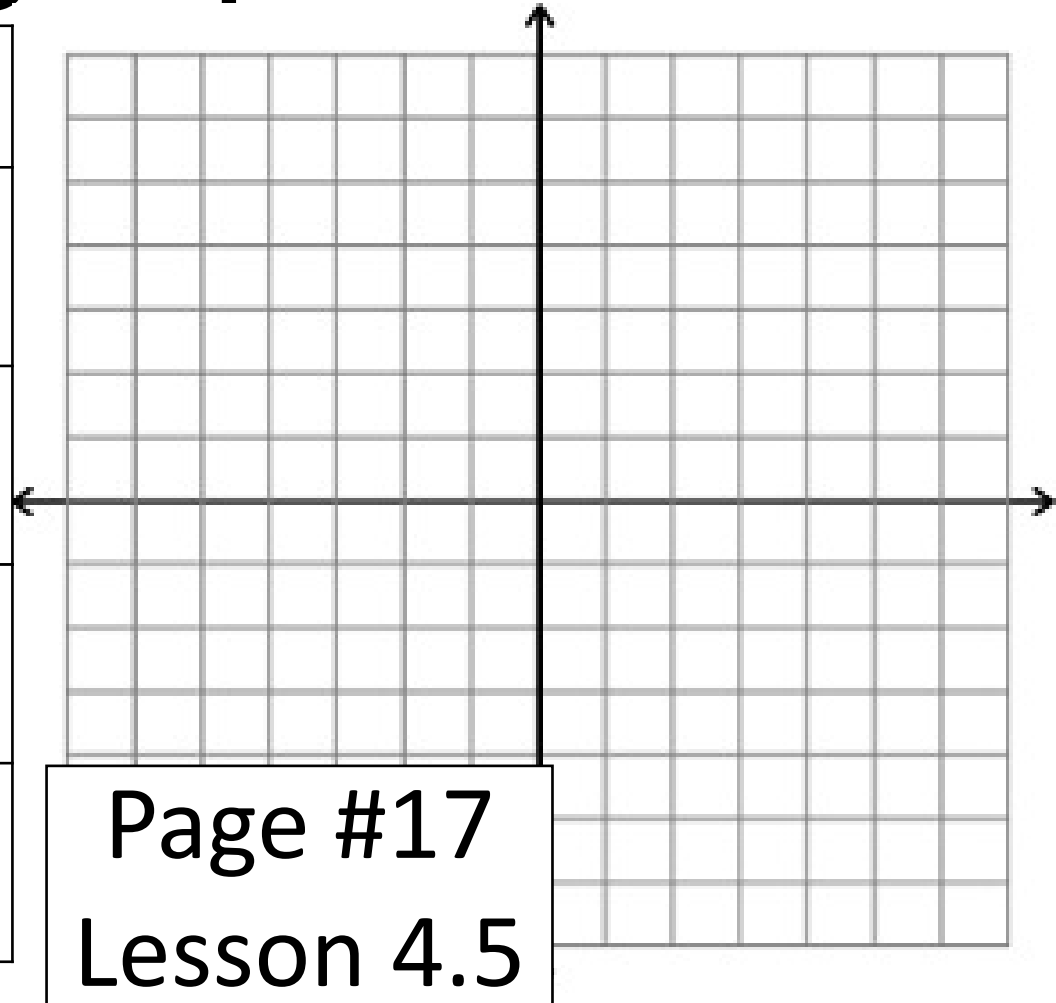
$$6x + 3y = 18$$

is the same as

$$y = -2x + 6$$

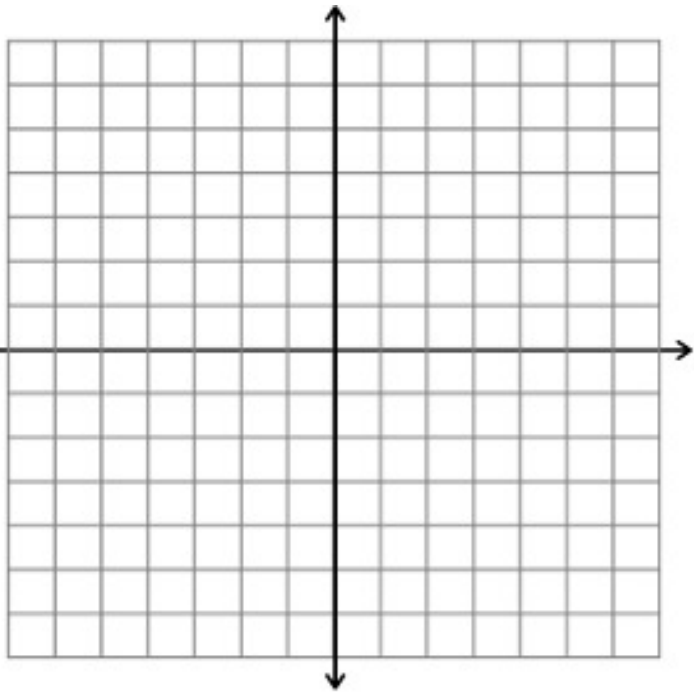
What is the
y-intercept? $(0, 6)$

x	y
0	6
1	4
2	2
3	0



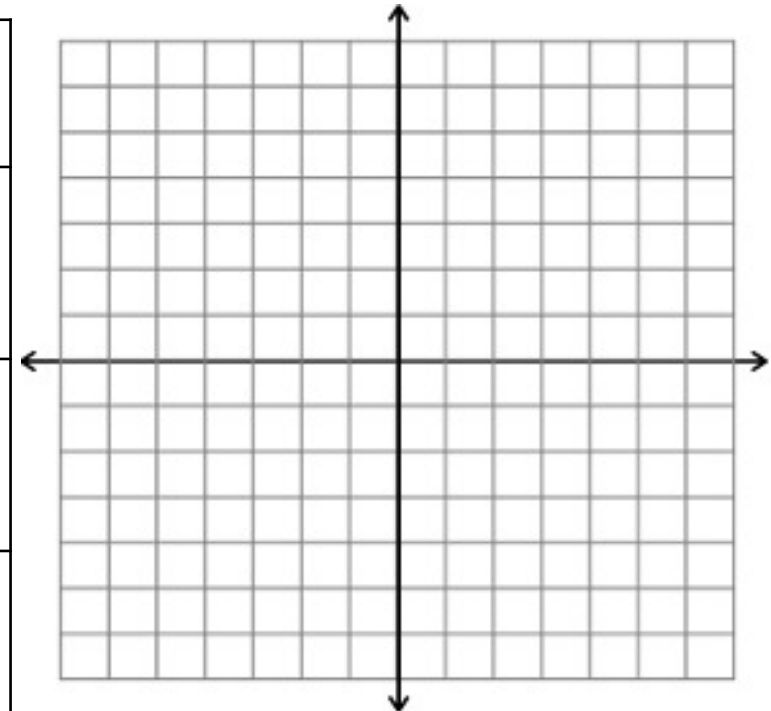
Today's New Vocab (4 of 4)

$Y = -3$ Graph the lines $X = 2$



X	Y
	-3
	-3
	-3

X	Y
2	
2	
2	



If it only has a y in the equation,
It only touches the y -axis.

Work Period

The graph of the equation $x + 3y = 6$ intersects the y -axis at the point whose coordinates

are $(0, B)$. What is B ?

$$B = 2$$

Coordinate
is $(0, 2)$

$$x + 3y = 6$$

$$-x \quad -x$$

$$3y = -x + 6$$

$$\div 3 \quad \div 3$$

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

Group Work Questions

Pages 19-20
Lesson 4.5

Directions: All groups, please do all of the questions. Use your notes from last class to help you. [Ask 2 people before you ask me.]

Yesterday, we did Lesson 4.5 Notes.

1st Stop @ 8:16

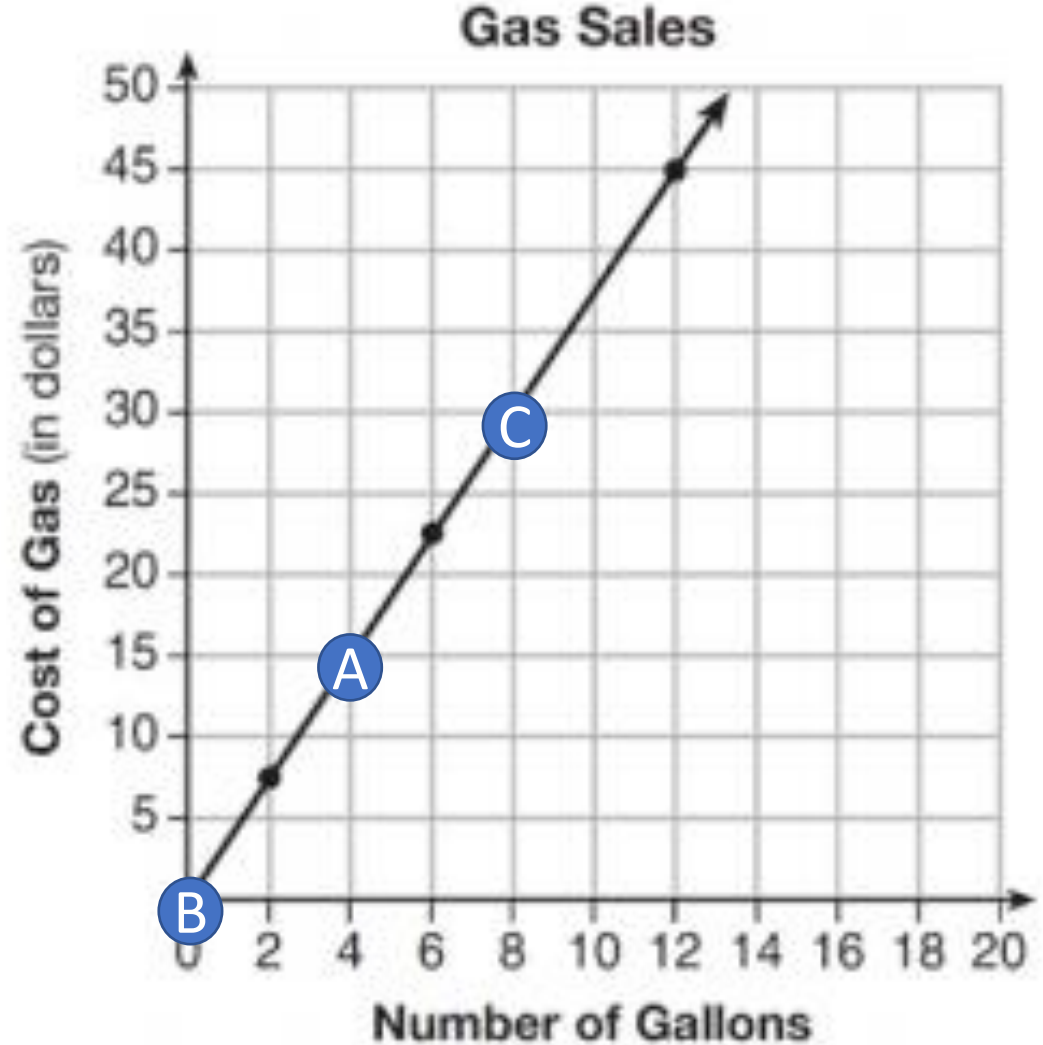
*One person from each group will present one question.

Exit Ticket

What is the cost of four gallons of gas? **\$15**

What is the cost of 8 gallons of gas? **\$30**

What is the cost of one gallon of gas? $\frac{15}{4} = \frac{30}{8} = \3.75





Lesson 4.5 Game

**Get all correct answers
and SPIN the wheel.**

- Solve each of the equations for y
by organizing the pieces correctly.
(earn \$5 each)
- Then, graph each equation correctly.
(earn \$5 each)

*****All pieces will NOT be used.**