Activator

Create a table and a graph.

$y \leq 2x - 3.$

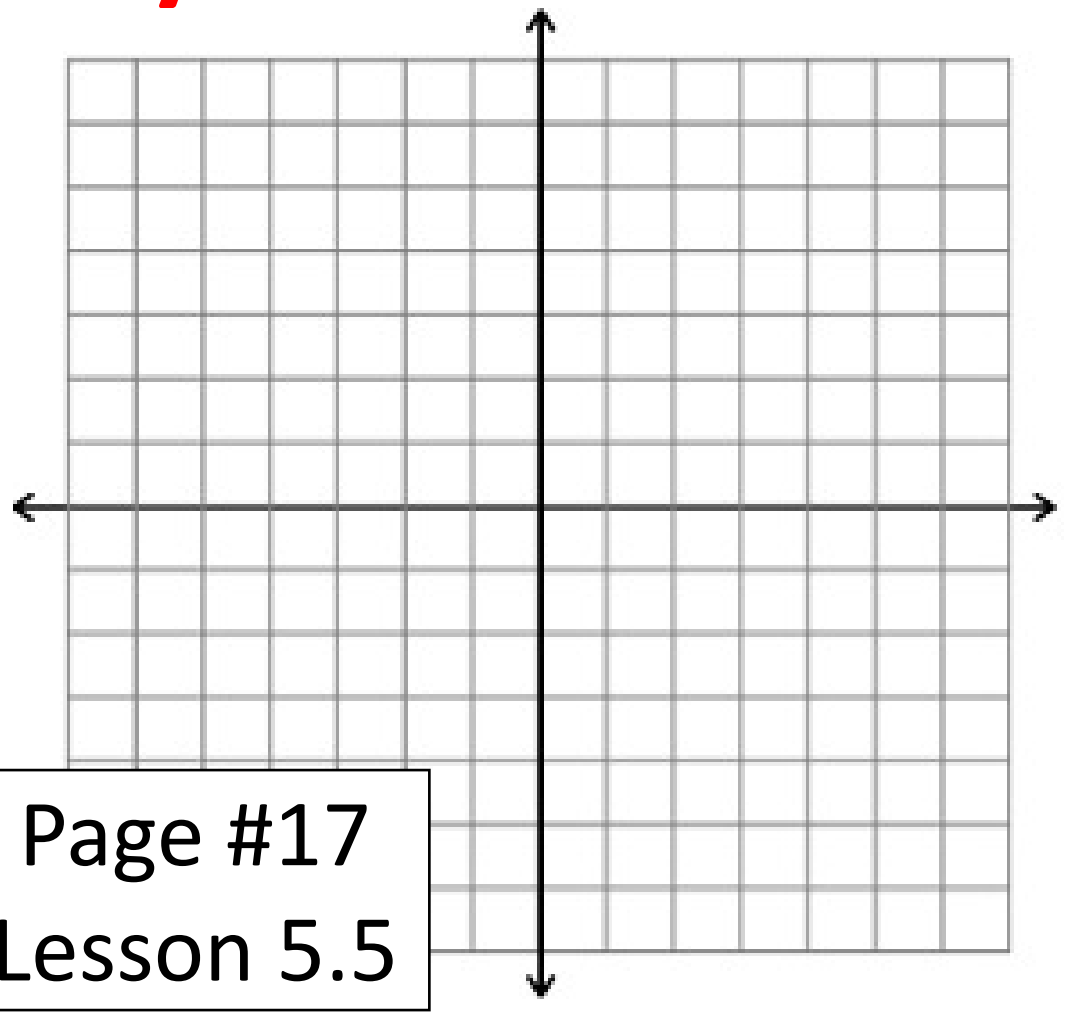
Is there shading? Yes

x	y
0	-3
1	-1
2	1
3	3

Write any solution.

(___,____)

**Need 2 colored pencils today.



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Today's Objective

Unit 5

Lesson 5

Students will be to graph a system of inequalities and equations in standard form.

Announcements

Today's New Vocab (1 of 3)

Write the inequality in Slope Intercept Form

$Y = Mx + B.$

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$$y - 2x \leq -3$$
$$+2x \quad +2x$$
$$y \leq -3 + 2x$$
$$y \leq 2x - 3$$

What is wrong with the current inequality?

-2x is on the wrong side,

Because the "y" needs to be by itself.

Today's New Vocab (2 of 3)

Write the inequality in Slope Intercept Form.

$Y = Mx + B.$

$$3x + y \geq 7$$
$$-3x \qquad\qquad -3x$$
$$y \geq 7 - 3x$$
$$Y \geq -3x + 7$$

What is wrong with the current inequality?

The 3x is on the wrong side.

The "y" needs to be by itself.

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Today's New Vocab (3 of 3)

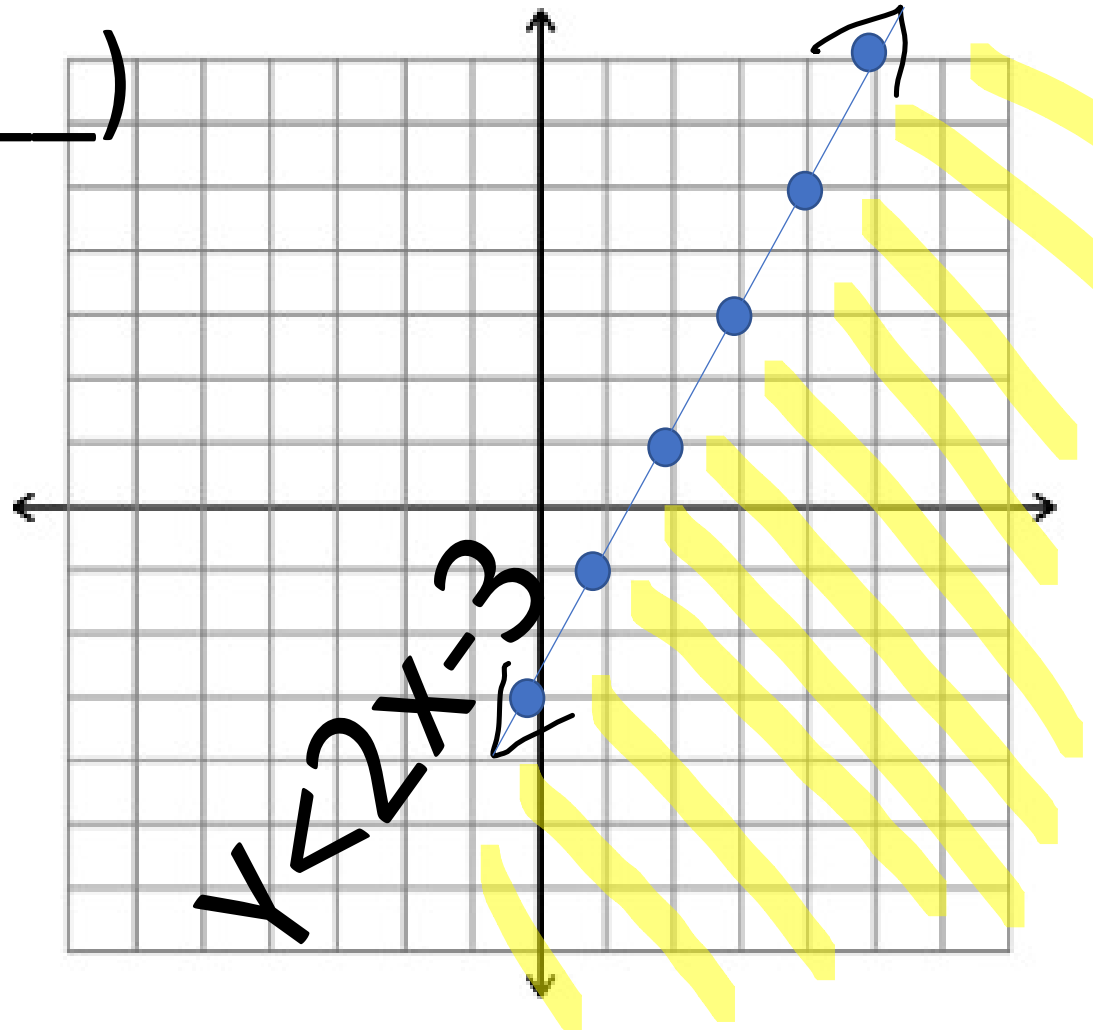
Graph the inequality $f(x) \geq -3x + 7$.

Write a solution. (___, ___)

x	y
0	-3
1	-1
2	1
3	3

Press TAB

x	f(x)
0	
1	
2	
3	



Work Period

Determine if the point $(2,1)$ is a solution to the system?

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$$y - 2x \leq -3$$

$$(1) - 2(2) \leq -3$$

$$1 - 4 \leq -3$$

$$-3 \leq -3$$

Yes, (2, 1) is a solution.

Yes, both inequalities are True.

$$3x + y \geq 7$$

$$3(2) + (1) \geq 7$$

$$6 + 1 \geq 7$$

$$7 \geq 7$$

Yes, (2, 1) is a solution.

Group Work Questions

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Directions: All groups, please do all of the questions. Use your notes from last class to help you. [Ask 1 person before you ask me.]

Yesterday, we did Lesson 5.5 Notes.

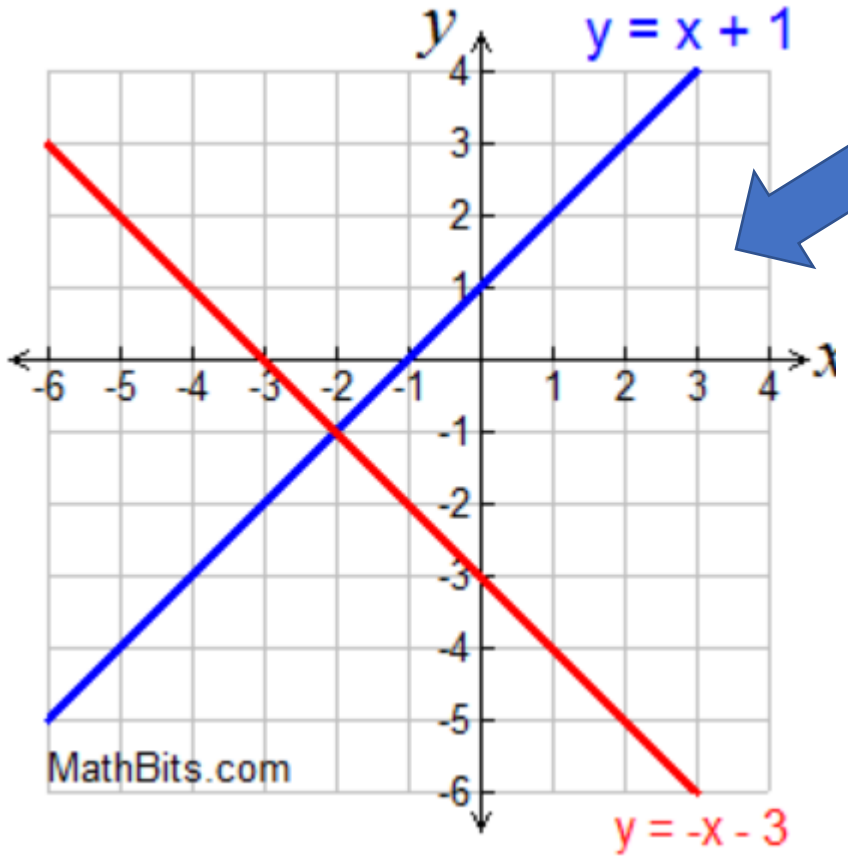
Pg. 20 is ONLY extra Credit. NOT REQUIRED.

1st Stop @ 8:15 **Fast Exit Ticket today.

*One person from each group will present one question.

Exit Ticket

What is the solution to the system of equations?



(-2, -1)

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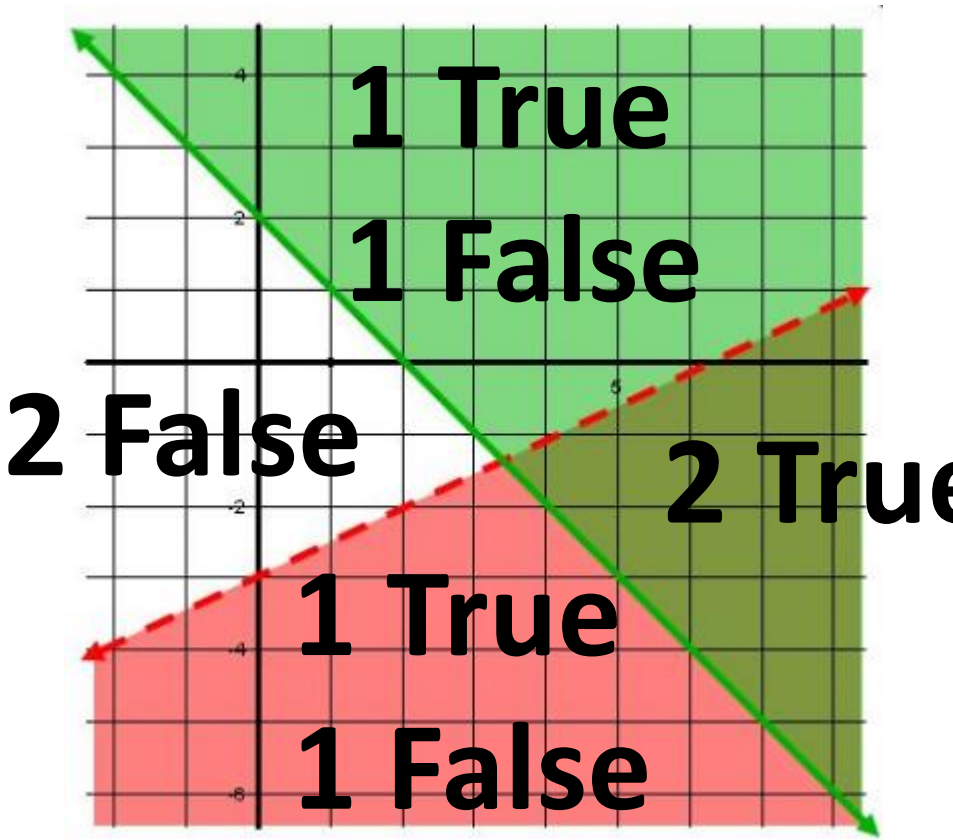
(____, ____)

Write a solution to the system of inequalities.



Lesson 5.5 Game

Each question asked earns $1.

Matching

Match the graph, equations, and solution together. There should be 6 different groups with 3 in each group.

**Ask a partner for help before you ask me.