

Activator

Does $(-1, 6)$ lie in the solution set of ...

$$y \geq -2x + 3$$

$$(6) \geq -2(-1) + 3$$

$$6 \geq +2 + 3$$

$$6 \geq 5$$

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Lesson 5.4

Today, you need
two colored
pencils that are
different colors.

Yes, $(-1, 6)$ is in the solution set.

What does this look like ?

Today's Objective

Unit 5

Lesson 4

Students will be able to determine if a point is a solution for an inequality.





Today's New Vocab (1 of 3)

Determine if the point $(1, -3)$ is a solution to the system?

$$Y \leq -x + 2$$
$$(-3) \leq -(1) + 2$$
$$-3 \leq -1 + 2$$
$$-3 \leq 1$$

Yes, the point $(1, -3)$ is a solution because both inequalities are true.

$$Y > x - 6$$
$$(-3) > (1) - 6$$
$$-3 > 1 - 6$$
$$-3 > -5$$

Yes, True, $(1, -3)$ is a solution.

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Lesson 5.4

Yes, True, $(1, -3)$ is a solution.

Today's New Vocab (2 of 3)

Does $(1, -3)$ lie in the solution set? Yes

$$y \leq -x + 2 ?$$

x	y
0	2
2	0
4	-2
6	-4

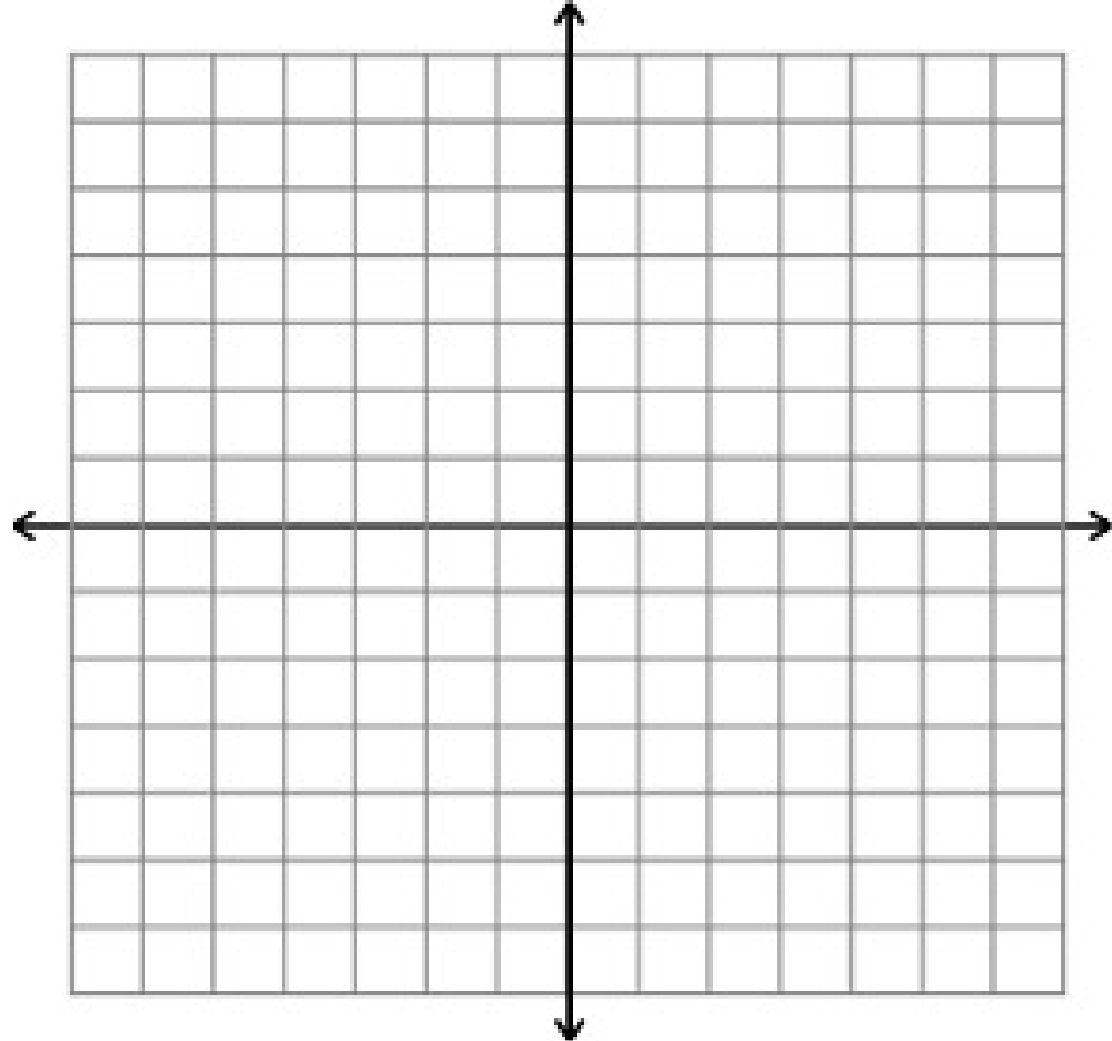
Normal Line?

(Equal to) Yes

Shading? Yes

Where? Below

Why? Less than



Today's New Vocab (3 of 3)

Does $(1, -3)$ lie in the solution set? Yes

$$y \geq x - 6 ?$$

x	y
0	-6
2	-4
4	-2
6	0

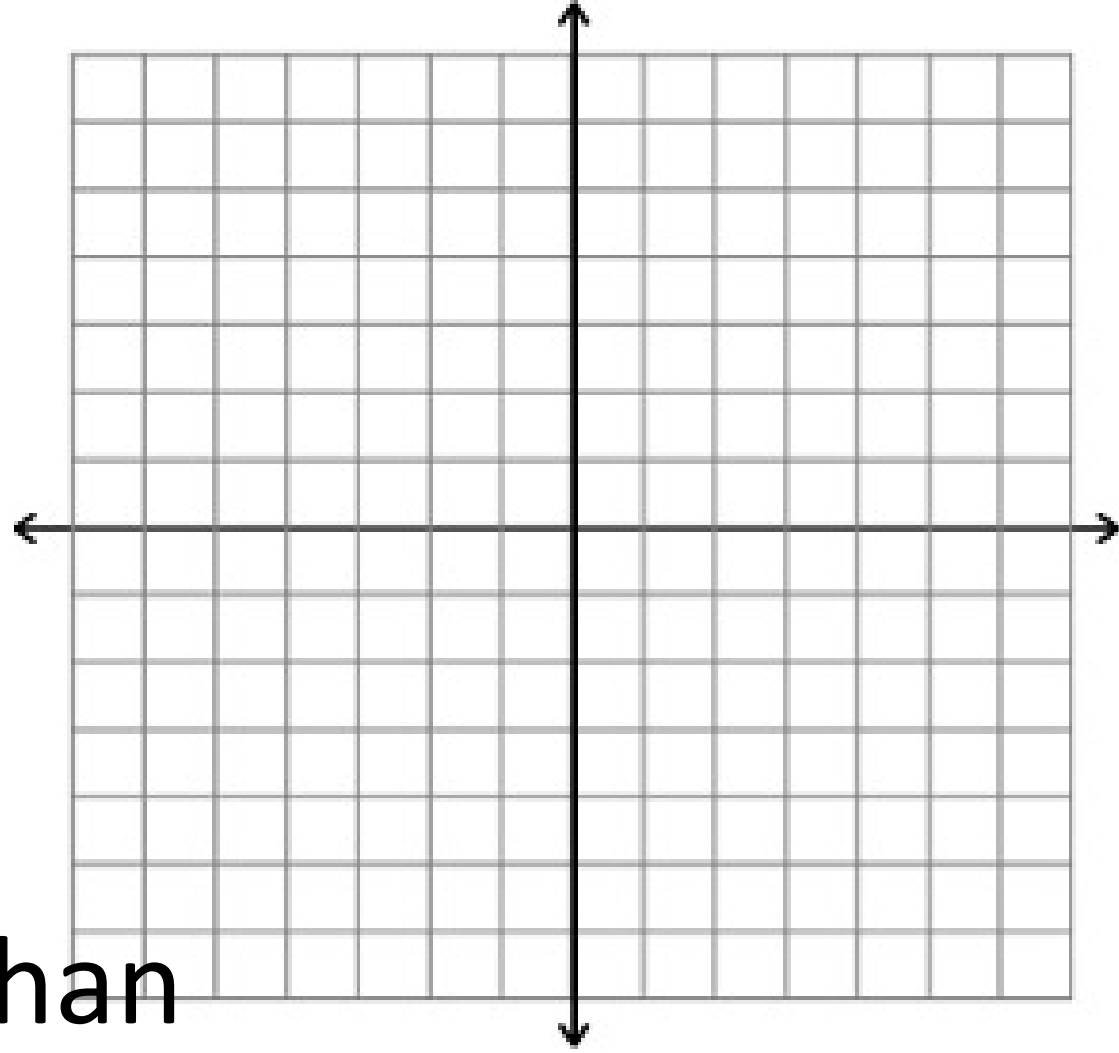
Normal Line?

(Equal to) Yes

Shading? Yes

Where? Above

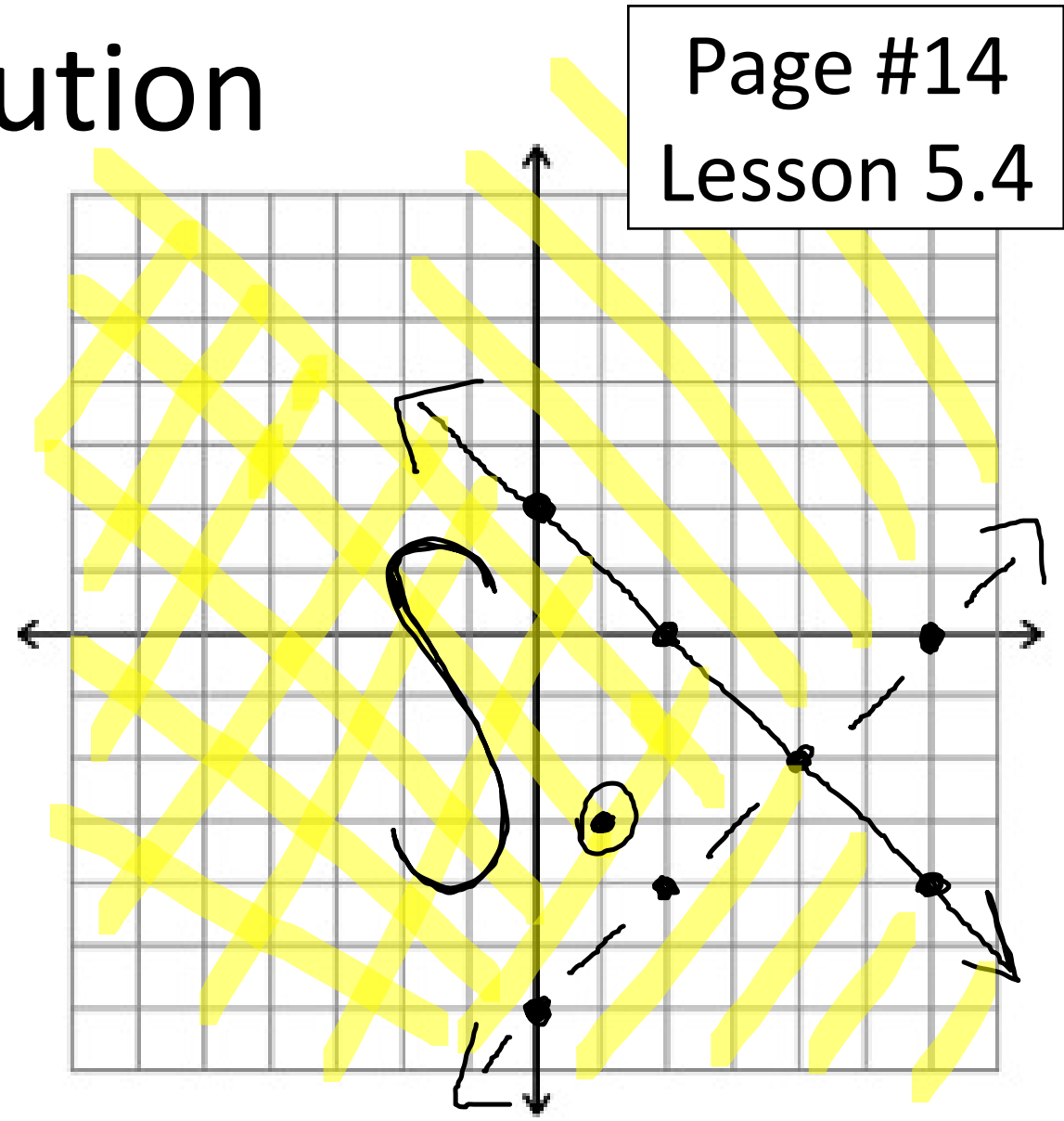
Why? Greater than



Work Period

Is the point $(1, -3)$ a solution to the system? YES

Why? The point is true for both. The point is in the Double shaded (Solution Area.)



Group Work Questions

Pages 15-16
Lesson 5.4

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.]

Last time, we did Lesson 5.4 Notes.

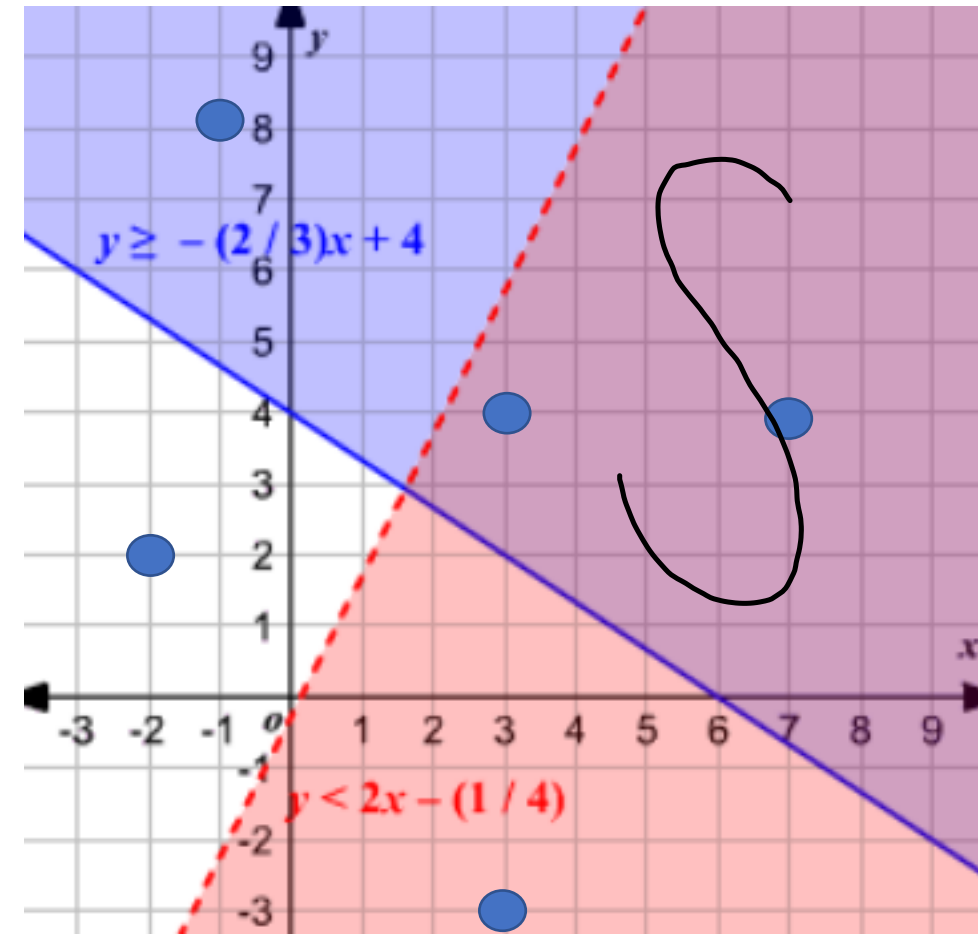
2nd Stop @ 9:05 3rd Stop @ 10:08 8th Stop @ 2:22

*One person from each group will present one question.

Exit Ticket

Is the point (3,4) a solution? **Yes**

Write 3 non-solutions and 2 solutions from this graph.



Non-solution: (-2, 2)

Non-solution: (-1, 8)

Non-solution: (3, -3)

Solution: (3, 4)

Solution: (7, 4)



Lesson 5.4 Game

1st Place \$40
Others \$20

“Ghost Riddle with Substitution”

Directions: (1) *Grab the worksheet from the table.*

Substitute or **Solve** to determine which solutions are correct and “Yes.” Then, (2) *write that letter on the back* with the matching solutions.

Example:

The first question/problem is done for you.