

Activator

What is the solution (or point)

if $x = -3$ when $f(x) = 4x - 5$?

$$f(x) = y$$

$$f(-3) = 4(-3) - 5$$

$$f(-3) = -12 - 5$$

$$f(-3) = -17$$

$$(-3, -17)$$

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Lesson 5.1

Today's Objective

Unit 5

Lesson 1

Students will be able to identify and write solutions.





Today's New Vocab (1 of 4)

Define **solution**: A point on the line.

For a system, it is the point on both lines.

Is the point $(2, -7)$ on the line $f(x) = -5x + 3$?

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Lesson 5.1

$$(-7) = -5(2) + 3$$

$$-7 = -10 + 3$$

The last equation is true. $-7 = -7$

So, the point is on the line.

Today's New Vocab (2 of 4)

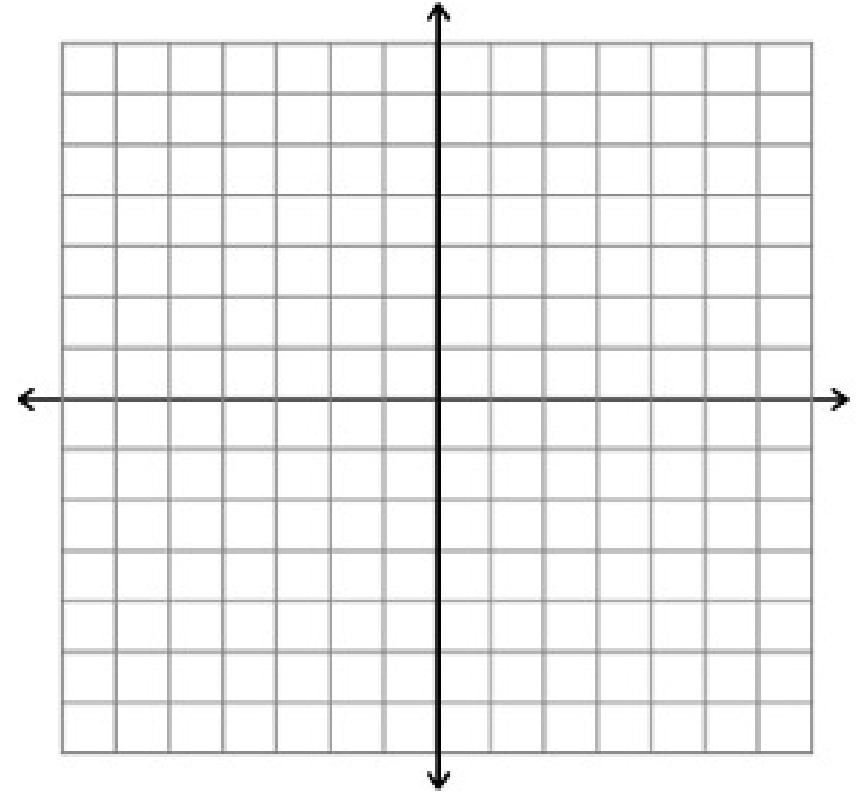
Is the point (1, -2) on the line $f(x) = -5x + 3$?

x	f(x)
0	3
1	-2
2	-7

Write one
solution

(___ , ___)

Write one
Non-solution (___ , ___)

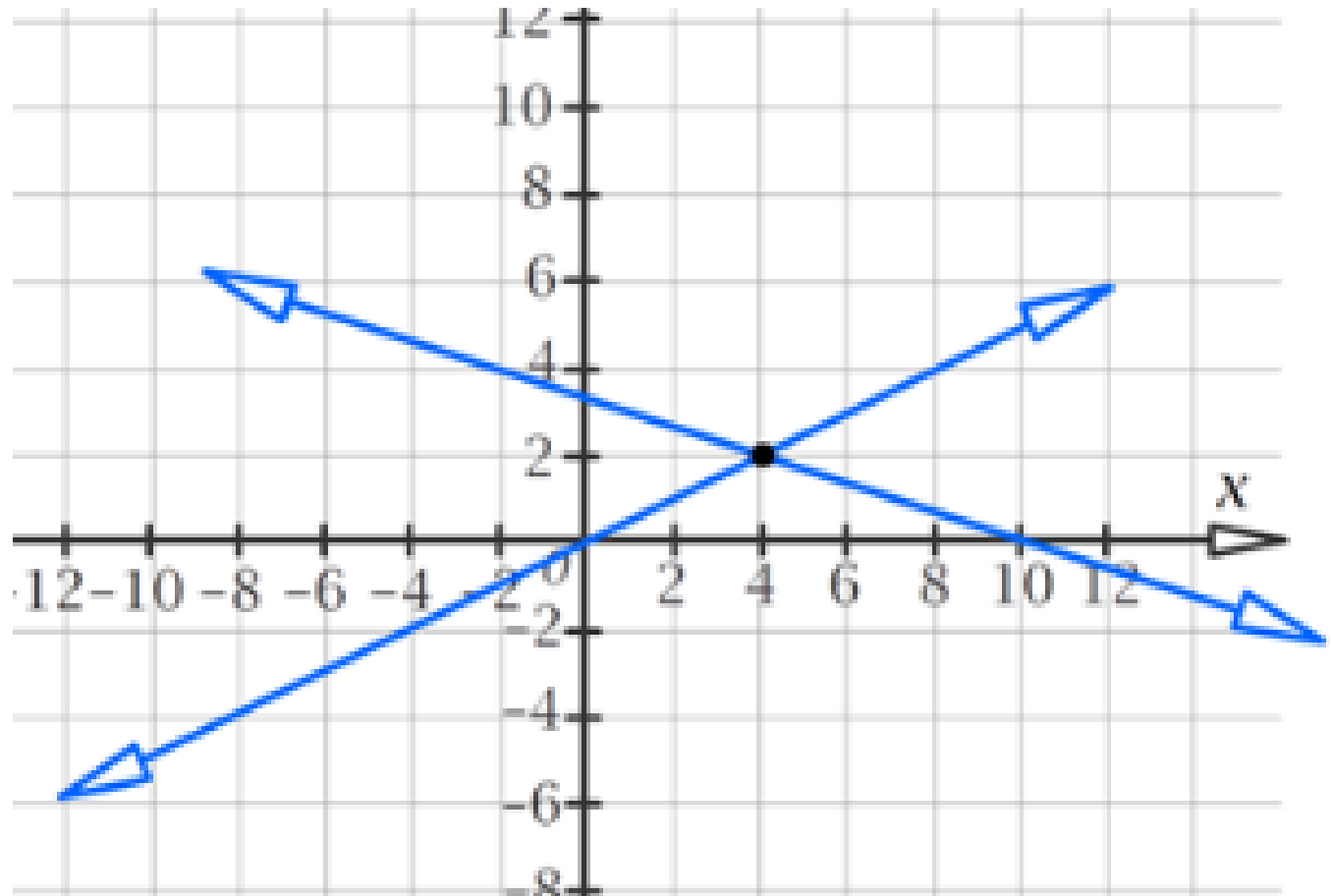


Today's New Vocab (3 of 4)

What is the solution of the two equations?

If there are two lines,
the solution is where
the lines intersect.

$(4, 2)$ is
the solution.

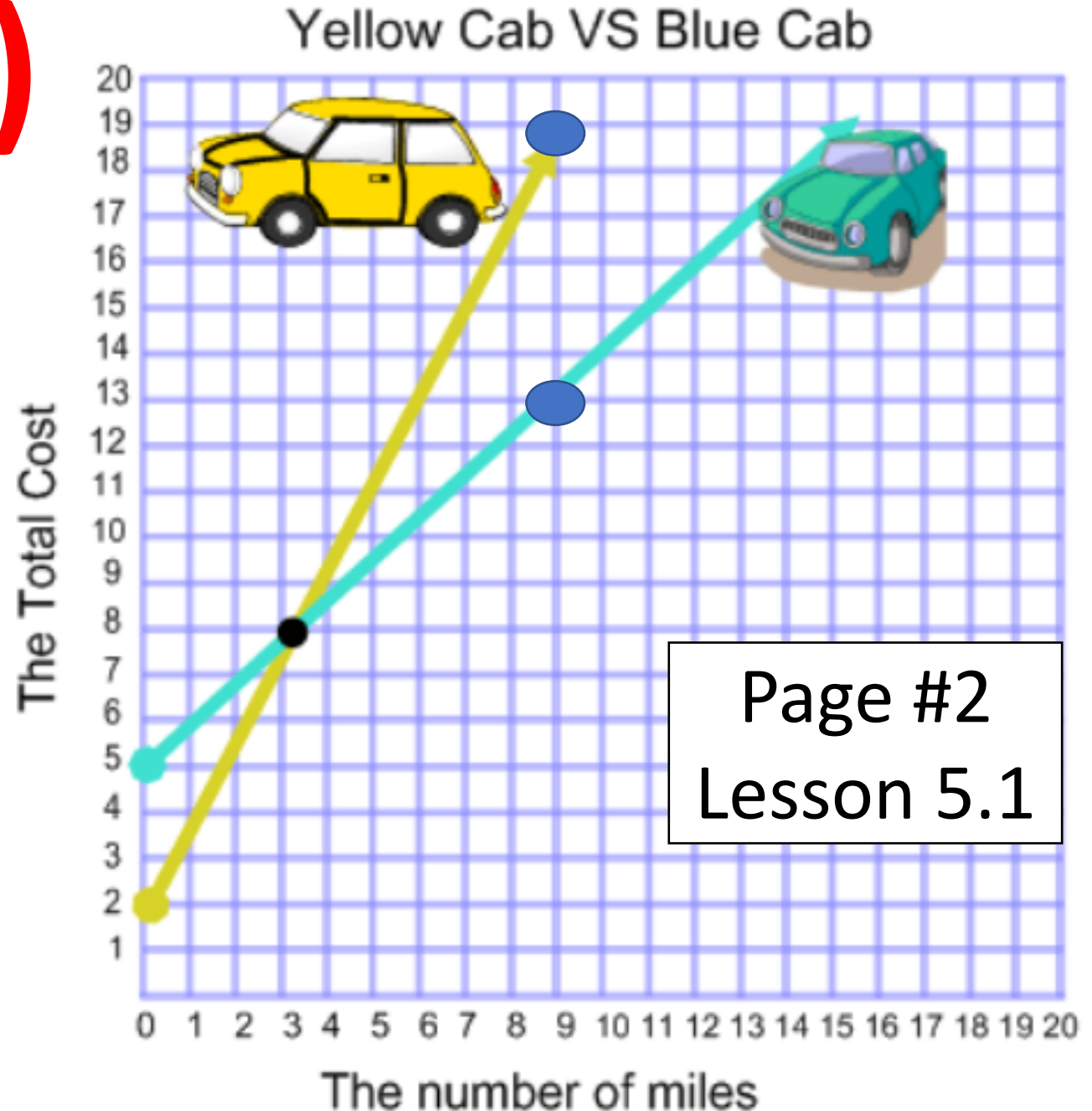


Today (4 of 4)

Write the solution (intersection) to the system of equations.

$(3, 8)$

Which taxi is cheaper for 9 miles? **Blue Cab**



Work Period

Which set of coordinates $(-6, -2)$ or $(3, -4)$ is a solution of the equation

$$2x - y = 10 ?$$

$$2(3) - (-4) = 10$$

$$6 + 4 = 10$$

$$10 = 10$$

Yes, it is a solution

The point $(3, -4)$ is on the line.

$$2x - y = 10 ?$$

$$2(-6) - (-2) = 10$$

$$-12 + 2 = 10$$

$$-10 = 10$$

No, it is NOT a solution

Group Work Questions

Pages 3-4
Lesson 5.1

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.]

You can skip #7 and #8.

Yesterday, we did Lesson 5.1 Notes.

2nd Stop @ 9:03 3rd Stop @ 10:06 8th Stop @ 2:20

*One person from each group will present one question.

Exit Ticket

Determine if the ordered pair $(4, -3)$ is a solution of $y - 5x = 23$.

$$(-3) - 5(4) = 23$$

$$-3 - 20 = 23$$

$$-23 = 23$$

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Lesson 5.1

No, $-23 \neq 23$. So, the point is NOT a solution. Therefore, it is also NOT on the line.



Lesson 5.1 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. In each group, there should be a letter, number, and point. **Each correct group earns \$5.**

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