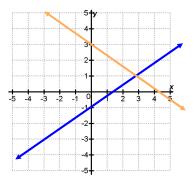
3.1 Graphing Systems of Linear Equations 2023.notebook

3.1 Solving Systems of Linear Equations by Graphing



Objective: to find the solution (intersection point) by graphing two lines.

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1)
$$4y = x - 4$$

 $2x + y = -10$
Step 12x

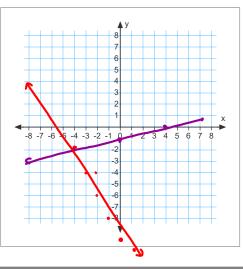
Solve by Graphing

1)
$$4y = x - 4$$
 $2x + y = -10$
Step 1? $y = -2x - 10$

Use y = mx+b form to graph.

Step 2: Graph the lines.

Step 3: The point where the lines intersect is the solution. (-4,12)



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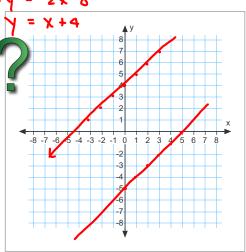


$$x - y = 5$$
 $- y = -x + 5$
 $2x - 2y = -8$

What if the lines don't intersect

No Solution

Parallel - same slope different y-int



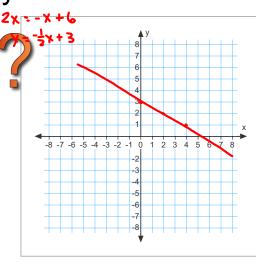
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3) Solve by graphing.

What if it's the same line

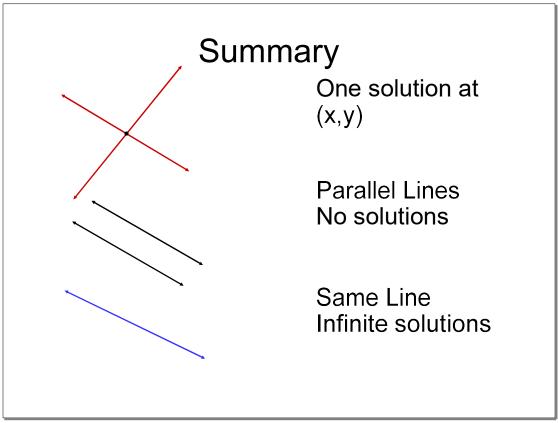
00 solutions

Same slope Same y-int



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IN CLASS PRACTICE to check your understanding



Go to the google classroom. Be sure to show all work on graph paper.

Match your answer to the answer given. Then slide the box to check your graph.

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	Extra Slides

Using your graphing calulator, solve the following.

- 4) Ralph's Rentables rents moving trucks for \$40 a day plus \$0.35 per mile driven. Mel's Movers rents trucks for \$36 a day plus \$0.45 per mile driven.
- When is the total cost for a day's rental the same for both companies?
- When is it better to rent from Ralph?

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Solve using your calculator.

In what week will the height of the bamboo be the same as the height of the corn? How tall will they be?

Weeks of Growth	Height of Bamboo in feet	Height of Corn in feet
1	1.5	3
2	2	3.5
3	2.5	4
4	4	4.5
5	6	4.5
6	6.5	5
7	6.5	5.5
8	9	6

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	Sep 6-4:14 PM