Do Now:

Directions: Consider the following compound sentence: x + y = 10 and y = 2x + 1.

1. Circle all the ordered pairs (x, y) that are solutions to the equation x + y = 10.

$$(-1, -1)$$

2. <u>Underline</u> all the ordered pairs (x, y) that are solutions to the equation y = 2x + 1.

(7,3)

(0,1)

(12,25)

(5,11)

(-1, -1)

3. List the ordered pair(s) (x, y) from above that are solutions to the compound sentence x + y = 10 and

$$y = 2x + 1.$$

(3,7)

x+y=10 y=ax+1 3+7=10 7=a(3)+1

10=10/

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AIM: Solving Systems of Equations Graphically

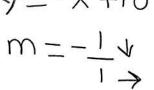
4. Graph x + y = 10 and y = 2x + 1 on the same set of coordinate axes.

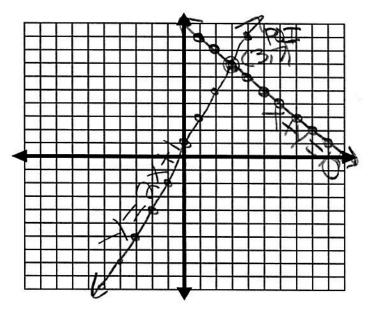
Circle the point that lies on BOTH lines.

What is this point called? Point of

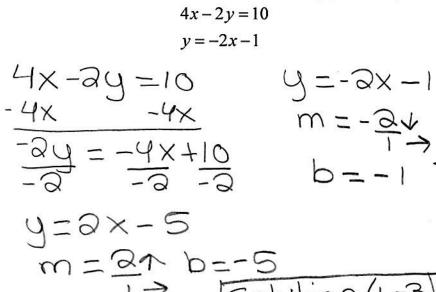
intersection

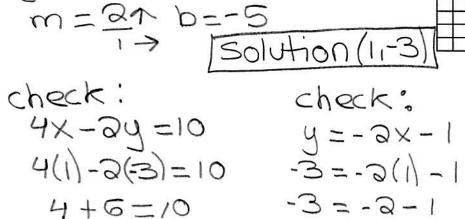
c. What is the solution set to x + y = 10 and y = 2x + 1?





5. On the set of axes below, solve the following system of equations graphically. State the coordinates of the solution.

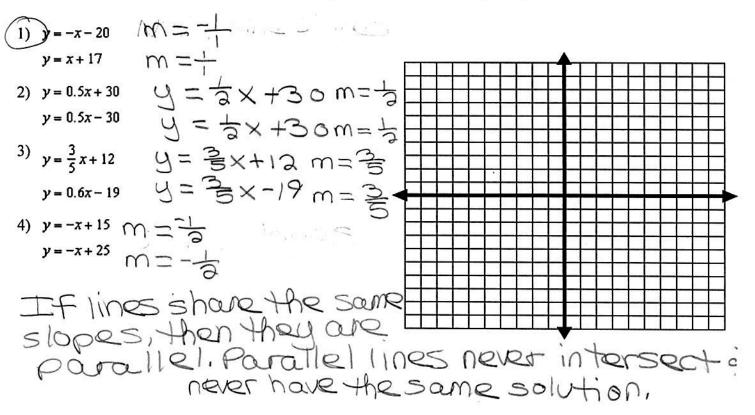




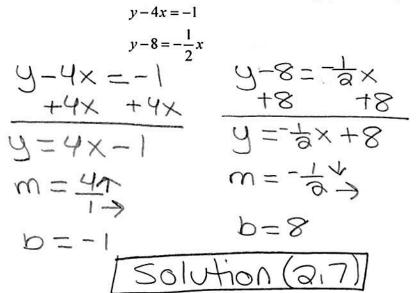
10=10V

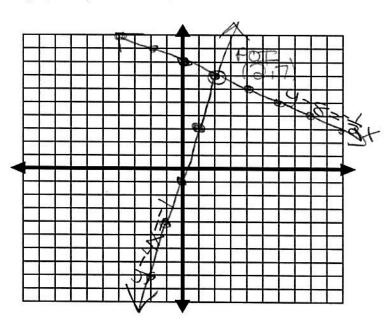
6. When solved graphically, which system of equations will have exactly one point of intersection?

-3=-31/

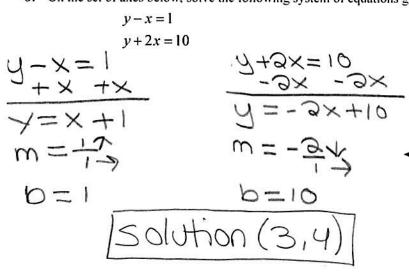


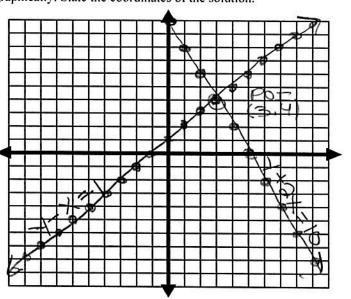
7. On the set of axes below, solve the following system of equations graphically. State the coordinates of the solution.





8. On the set of axes below, solve the following system of equations graphically. State the coordinates of the solution.





9. Explain what it means to solve systems of equations graphically.

Graph both Rauation to determine where both lines share the same solution. The point of intersection.