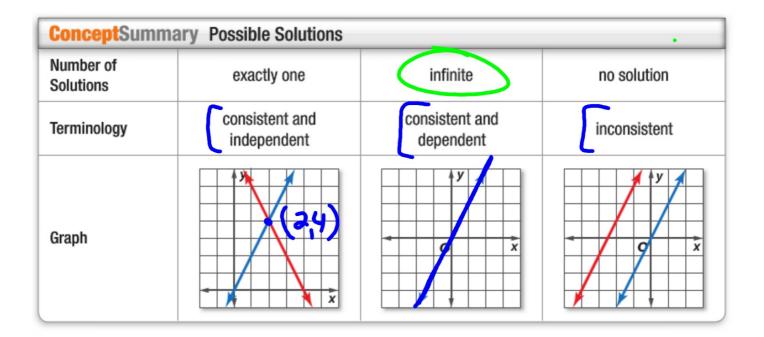


whiteboards



Example 1 Number of Solutions

Use the graph at the right to determine whether each system is consistent or inconsistent and if it is independent

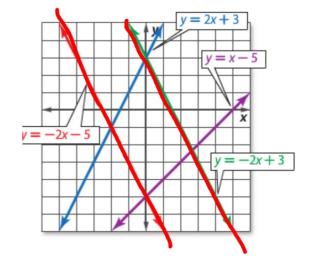
or dependent.

$$y = -2x + 3$$
 $y = x - 5$
 $y = x - 5$
 $y = -2x - 5$
 $y = -2x + 3$
 $y = -2x + 3$

b.
$$y = -2x - 5$$

 $y = -2x + 3$ Inconsistat

Find the lines What is their relationship? Answer the question.

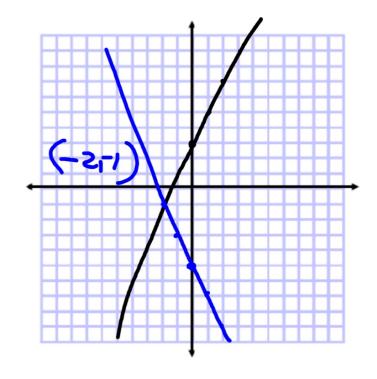


GuidedPractice

$$y = 2x + 3$$

$$y = -2x - 5$$

Graph the lines What is their relationship? Answer the question.

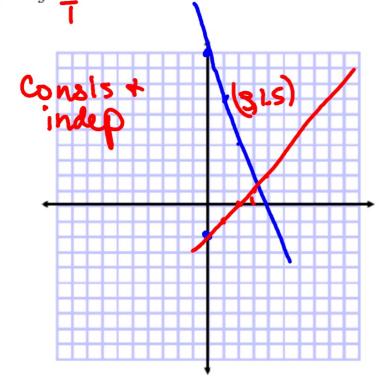


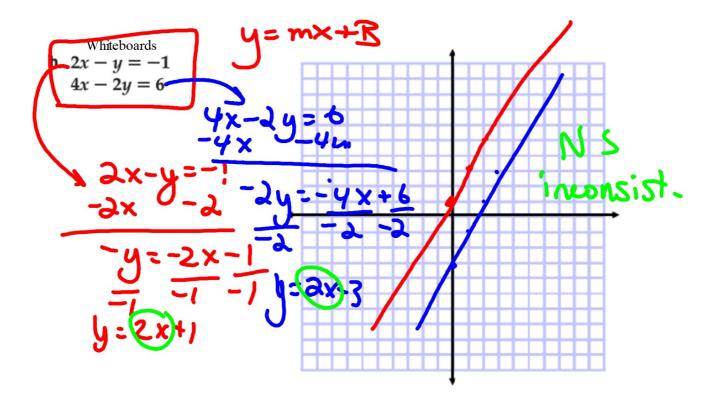
Example 2 Solve by Graphing



Graph each system and determine the number of solutions that it has. If it has one solution, name it. ordered pair!

a.
$$y = -3x + 10$$





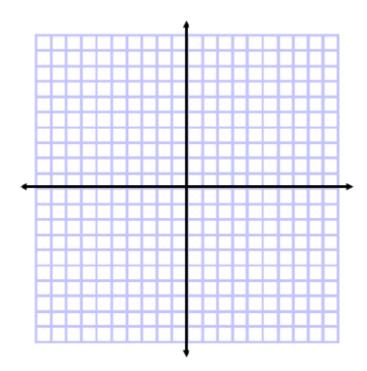
GuidedPractice

Graph each system and determine the number of solutions that it has. If it has one solution, name it.

2A.
$$x - y = 2$$
 $3y + 2x = 9$

2B.
$$y = -2x - 3$$

 $6x + 3y = -9$



What is rate of change? Starting point?

GuidedPractice

3. VIDEO GAMES Joe and Josh each want to buy a video game. Joe has \$14 and saves \$10 a week. Josh has \$26 and saves \$7 a week. In how many weeks will they have the same amount?

