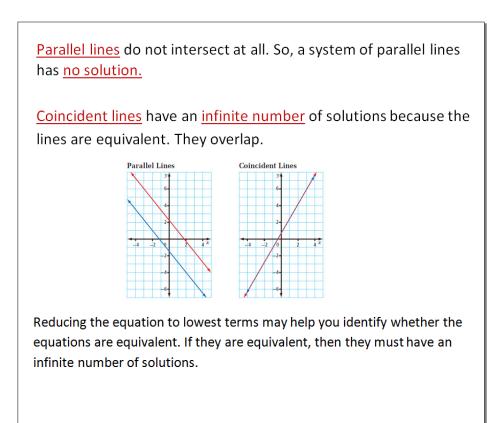
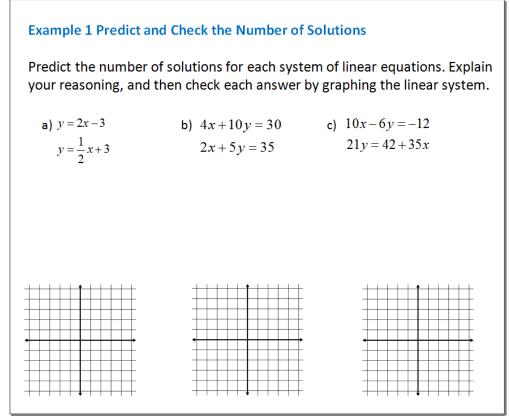
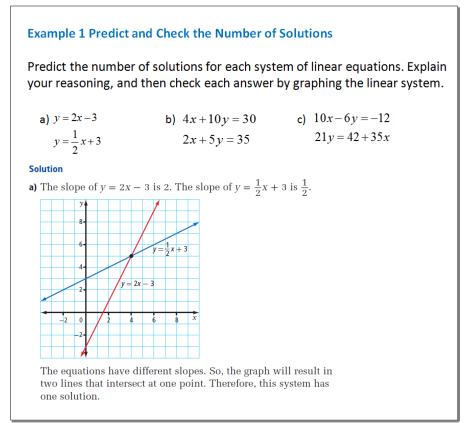


May 25-4:51 PM





May 25-5:03 PM



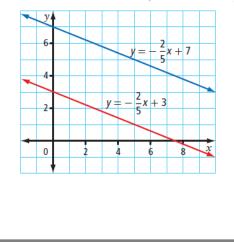
May 25-5:03 PM

8.3 Number of Solutions for Systems of Linear Equations.notebook

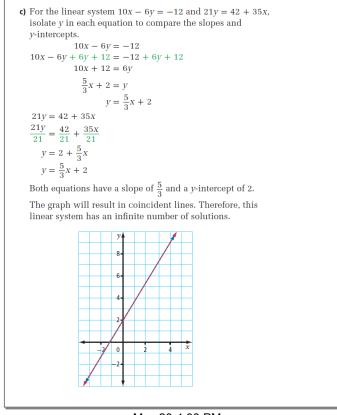
b) Rearrange each equation to slope-intercept form by isolating y.

4x + 10y = 304x + 10y - 4x = 30 - 4x10y = -4x + 30 $y = \frac{-2}{5}x + 3$ 2x + 5y = 352x + 5y - 2x = 35 - 2x5y = -2x + 35 $y = \frac{-2}{5}x + 7$

Since the lines have the same slope and different *y*-intercepts, the graph will result in parallel lines. The lines will never intersect. Therefore, this linear system has no solutions.

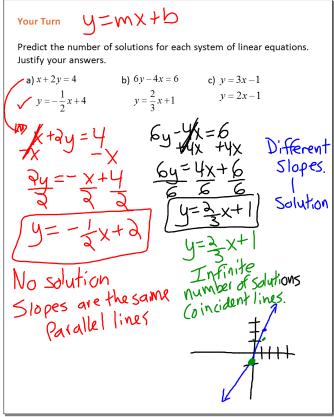


May 26-4:35 PM



May 26-4:38 PM

8.3 Number of Solutions for Systems of Linear Equations.notebook



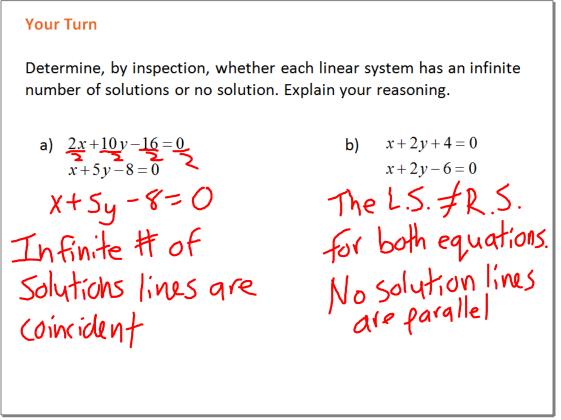
May 25-5:02 PM

Example 3 Identify Zero and Infinite Solutions by Comparing Coefficients

Sabrina's teacher gives her the following systems of linear equations and tells her that each system has either no solution or an infinite number of solutions. How can Sabrina determine each answer by inspecting the equations?

b) 2x + 3y = 12a) 2x + 3y = 122x+3y=20 y = 2x+3y=12 y = 2x+3y=12 y = 2x+3y=12 x+3y=12 x+3y=12 x+3y=12 x+3y=12 x+3y=12 x+3y=12 x+3y=12 x+3y=12 y = 2x+3y=12 x+3y=12 y = 2x+3y=12 x+3y=12 x+3y=1 x+3y=1Your turn p.11, 12

May 25-4:57 PM



May 25-5:14 PM

