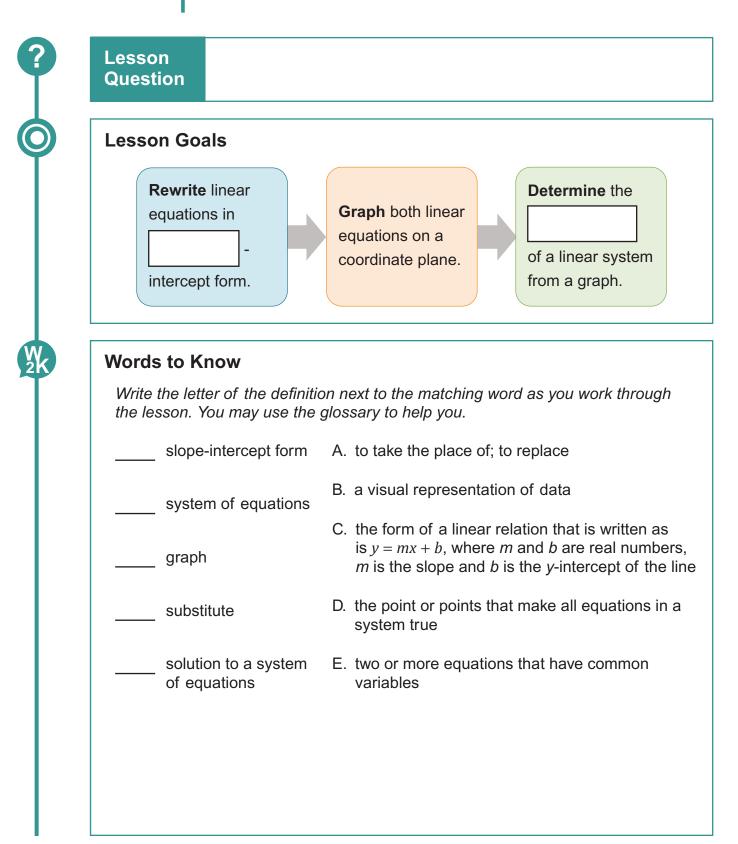


Warm-Up

Using Graphs to Solve Systems





Instruction

Slide

2

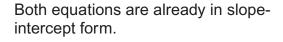
Using Graphs to Solve Systems

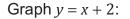
Solving a System of Equations Using a Graph

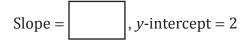
Graph the system of equations to determine the solution to the system of equations.

y = x + 2y = 5x - 6

Graph and label the intersection point of the two lines.





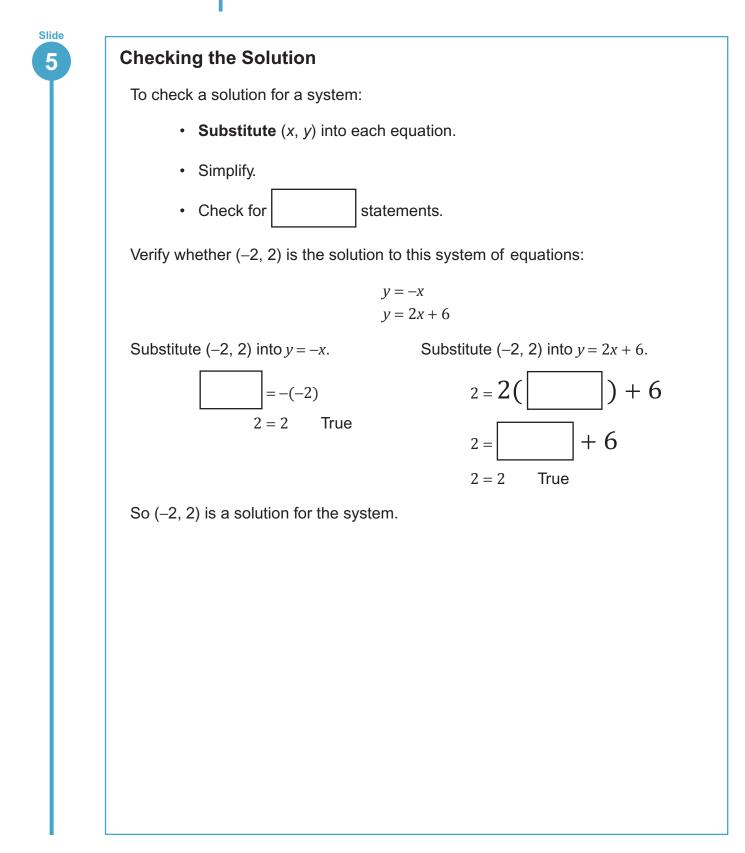


Graph y = 5x - 6:

Slope = , y-intercept = -6



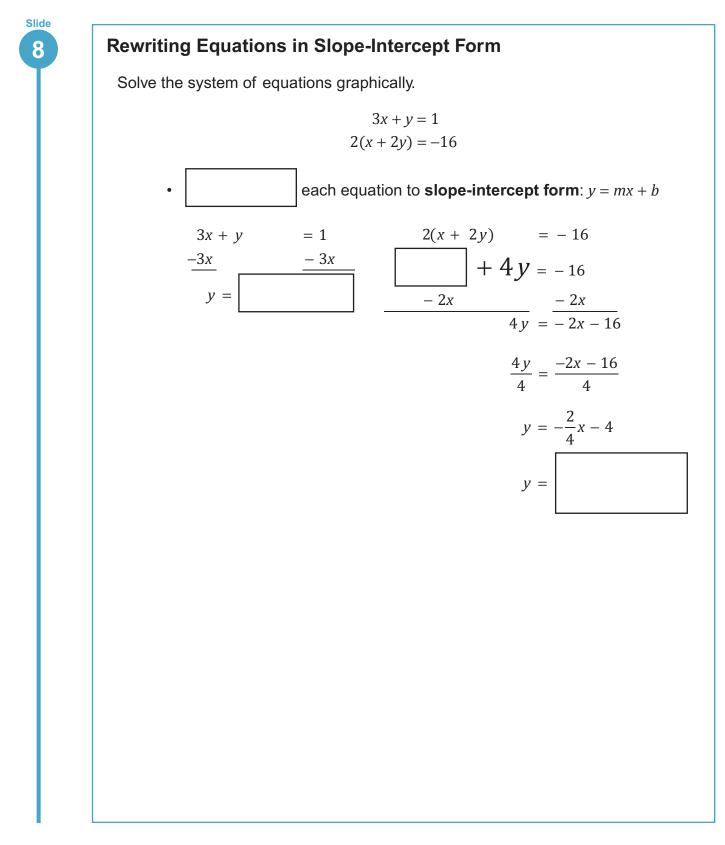
Instruction Using Graphs to Solve Systems





Instruction

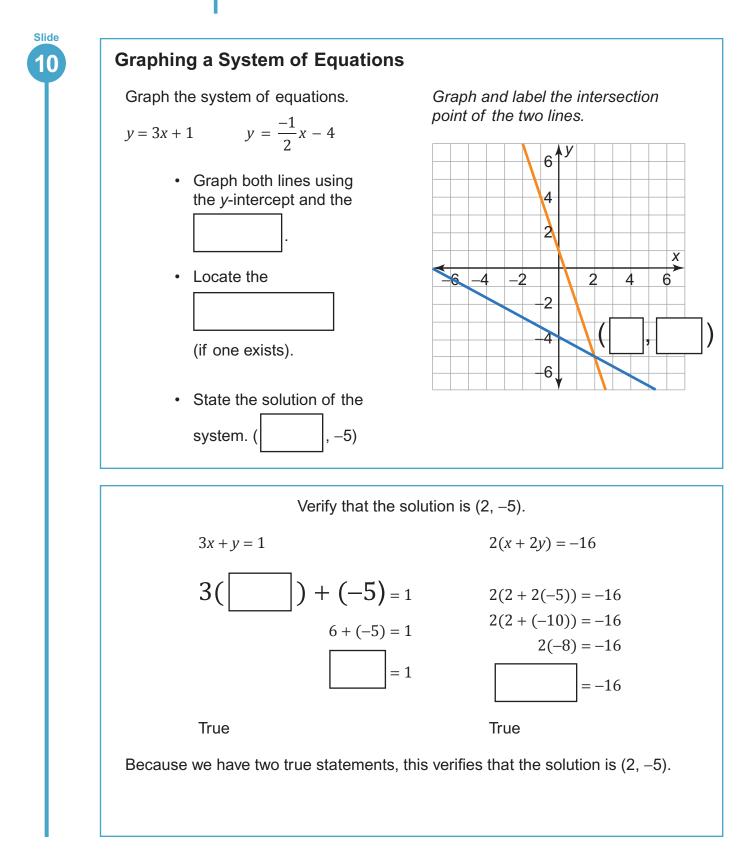
Using Graphs to Solve Systems





Instruction

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Instruction

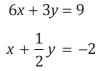
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12

Finding a Solution Using a Graph

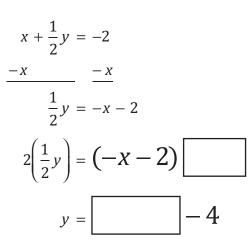
EXAMPLE

Find the solution to this system of equations by graphing both lines.



Using Graphs to Solve Systems

Rewrite both equations in slope-intercept form.



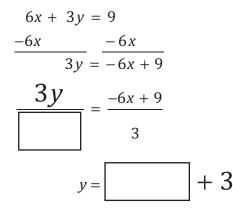
Both equations have the same slope, -2, but they have different

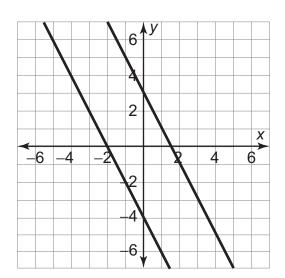
-intercepts.

lines are

We now can determine that this is

a system with no solution, because the







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6

Summary

Using Graphs to Solve Systems

Lesson How do you use graphs to solve a system of two linear equations? Question Answer 2 **Review: Key Concepts** • System in standard form: 6 -2x + 3y = -24 6x - 2y = -8System converted to slope-intercept form: 2 4 -6 -4 $y = \frac{2}{3}x - \frac{2}{3}$ -2 y = 3x + 44 6





Summary

Using Graphs to Solve Systems

Use this space to write any questions or thoughts about this lesson.