

## Solving Systems of Equations Using Substitution

Score \_\_\_\_\_ Per \_\_\_\_\_

1. Lincoln solved the following system of equations:

$$y = 3x - 2$$

$$y = \frac{1}{2}x + 8$$

He found an answer of (4,10). How could Lincoln check to make sure his answer is correct?

2. Using the method you described in #1, check Lincoln's answer below.

3. Circle one: Lincoln was **correct** or **incorrect**

Find the solution to the system of equations by using substitution.

4.  $y = 2x - 4$   
 $y = -6x + 12$

Answer: \_\_\_\_\_

Check answer in the  
1<sup>st</sup> Equation:

Check answer in the  
2<sup>nd</sup> equation:

5.  $y = -2x + 11$   
 $y = 2x - 5$

Answer: \_\_\_\_\_

Check answer in the  
1<sup>st</sup> Equation:

Check answer in the  
2<sup>nd</sup> equation:

6.  $y = x - 6$   
 $y = -6x + 1$

Answer: \_\_\_\_\_

Check answer in the  
1<sup>st</sup> Equation:

Check answer in the  
2<sup>nd</sup> equation:

7.  $y = 5x + 2$   
 $y = 5x + 3$

Answer: \_\_\_\_\_

Check answer in the  
1<sup>st</sup> Equation:

Check answer in the  
2<sup>nd</sup> equation:

<p><b>8.</b> <math>y = -5x - 14</math> <math>y = 2x</math></p> <p>Answer: _____</p> <table border="1" data-bbox="159 470 797 638"> <tr> <td data-bbox="159 470 477 537">Check answer in the 1<sup>st</sup> Equation:</td> <td data-bbox="477 470 797 537">Check answer in the 2<sup>nd</sup> equation:</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	Check answer in the 1 <sup>st</sup> Equation:	Check answer in the 2 <sup>nd</sup> equation:			<p><b>9.</b> <math>y = -4x + 7</math> <math>y = -3x + 4</math></p> <p>Answer: _____</p> <table border="1" data-bbox="873 470 1511 638"> <tr> <td data-bbox="873 470 1192 537">Check answer in the 1<sup>st</sup> Equation:</td> <td data-bbox="1192 470 1511 537">Check answer in the 2<sup>nd</sup> equation:</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	Check answer in the 1 <sup>st</sup> Equation:	Check answer in the 2 <sup>nd</sup> equation:		
Check answer in the 1 <sup>st</sup> Equation:	Check answer in the 2 <sup>nd</sup> equation:								
Check answer in the 1 <sup>st</sup> Equation:	Check answer in the 2 <sup>nd</sup> equation:								
<p><b>10.</b> <math>y = 2x - 5</math> <math>x = -1</math></p> <p>Answer: _____</p> <table border="1" data-bbox="159 1005 797 1173"> <tr> <td data-bbox="159 1005 477 1073">Check answer in the 1<sup>st</sup> Equation:</td> <td data-bbox="477 1005 797 1073">Check answer in the 2<sup>nd</sup> equation:</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	Check answer in the 1 <sup>st</sup> Equation:	Check answer in the 2 <sup>nd</sup> equation:			<p><b>11.</b> <math>y = 3x - 2</math> <math>y = 3x - 2</math></p> <p>Answer: _____</p> <table border="1" data-bbox="873 1005 1511 1173"> <tr> <td data-bbox="873 1005 1192 1073">Check answer in the 1<sup>st</sup> Equation:</td> <td data-bbox="1192 1005 1511 1073">Check answer in the 2<sup>nd</sup> equation:</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	Check answer in the 1 <sup>st</sup> Equation:	Check answer in the 2 <sup>nd</sup> equation:		
Check answer in the 1 <sup>st</sup> Equation:	Check answer in the 2 <sup>nd</sup> equation:								
Check answer in the 1 <sup>st</sup> Equation:	Check answer in the 2 <sup>nd</sup> equation:								
<p><b>12.</b> <math>y = -4</math> <math>y = x - 8</math></p> <p>Answer: _____</p> <table border="1" data-bbox="159 1577 797 1745"> <tr> <td data-bbox="159 1577 477 1644">Check answer in the 1<sup>st</sup> Equation:</td> <td data-bbox="477 1577 797 1644">Check answer in the 2<sup>nd</sup> equation:</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	Check answer in the 1 <sup>st</sup> Equation:	Check answer in the 2 <sup>nd</sup> equation:			<p><b>13.</b> <math>y = 5x + 3</math> <math>x = 4</math></p> <p>Answer: _____</p> <table border="1" data-bbox="873 1577 1511 1745"> <tr> <td data-bbox="873 1577 1192 1644">Check answer in the 1<sup>st</sup> Equation:</td> <td data-bbox="1192 1577 1511 1644">Check answer in the 2<sup>nd</sup> equation:</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	Check answer in the 1 <sup>st</sup> Equation:	Check answer in the 2 <sup>nd</sup> equation:		
Check answer in the 1 <sup>st</sup> Equation:	Check answer in the 2 <sup>nd</sup> equation:								
Check answer in the 1 <sup>st</sup> Equation:	Check answer in the 2 <sup>nd</sup> equation:								