Name:_____ Hour: _____ Date: _____

NOTES: Section 7.2 – Solving Linear Systems by Substitution

Goals: #1 - I can solve a linear system algebraically using the substitution method and then
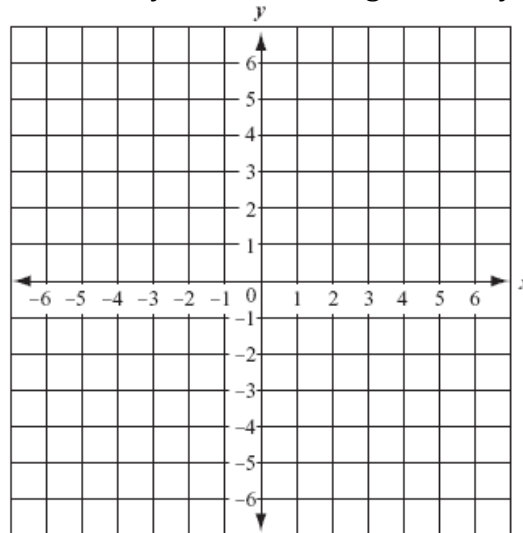
check my solution algebraically.   😎   😬   😢

Homework: Section 7.2 Worksheet

Warm Up: Solve the linear system by graphing. Then check your solution algebraically.

$3x + 6y = 15$

$-2x + 3y = -3$

Notes:

There are several ways to solve a linear system _____ using graphs.

One algebraic method is called _____.

1. **Step 1:**

2. **Step 2:**

3. **Step 3:**

4. **Step 4:**

Example #1: Solve the linear system using substitution.

1. $-x + y = 1$
   $2x + y = -2$

2. $2x + 2y = 3$
   $x - 4y = -1$

Step #1:

Step #2:

Step #3:

Step #4:

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You practice: Solve the linear system by graphing. Check your solution.

1. $2x + y = 4$

    $-x + y = 1$

2. $3x + y = 3$

    $7x + 2y = 1$

Step #1:

Step #2:

Step #3:

Step #4:

Example #2: In on day the National Civil Rights Museum in Memphis, Tennessee, admitted 321 adults and children and collected $1590. The price of admission is $6 for an adult and $4 for a child. How many adults and how many children were admitted to the museum that day?