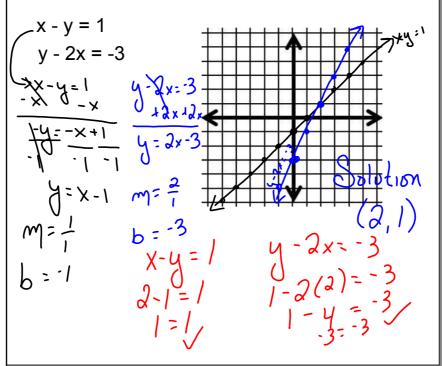


Solve the following system of equations by graphing. Check your solution



Nov 12-9:14 AM

## **Homework Answers**

1. 
$$y = x + 5$$
  
 $y = \frac{-3}{2}x - 5$   
(-4, 1)

2. 
$$y = \frac{-1}{2}x$$
  
 $y = \frac{4}{3}x + 5$   
(6, -3)

3. No

5. No

4. No

6. Yes

## Systems of Equations - Substitution Method

- **Isolate** one of the variables in one of the equations (get the x or y variable alone)
- **Substitute** the expression into the second equation.
- **Solve** the equation and substitute back in to find the second variable.
- **Check** the solutions in **both** of the **original** equations.

Nov 12-9:23 AM

**EX 1:** Solve the following system of equations algebraically and check.

$$y = 2x - 1$$

$$y = -x + 2$$

$$2x - 1 = -x + 2$$

$$+x + +x$$

$$3x - 1 = 2$$

$$+1 + 1$$

$$3x = 3$$

$$x = 3$$

$$x = 3$$

$$1 = 2(1) - 1$$

$$1 = 2 - 1$$

$$1 = 2 - 1$$

$$1 = 1$$

Nov 12-9:20 AM

Jan 13-11:44 AM