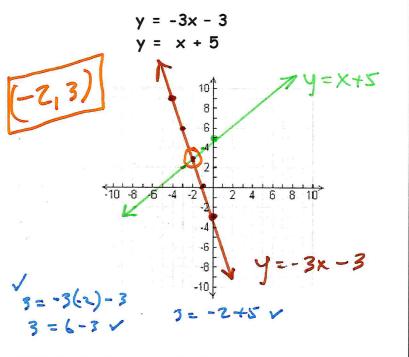
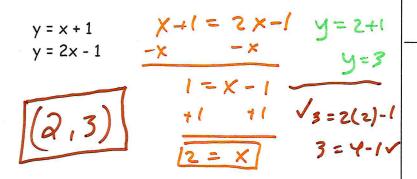
## \*\*SHOW YOUR WORK\*\* Check your solutions!

## Solve each system of equations. (5 points each)

1) Solve this system of equations by graphing.



2) Solve this system by substitution.



3. Solve by elimination:

3x + 7y = 48  

$$5x - 7y = -32$$
  
 $5x = 16$   
 $7y < y^2$   
 $7y = 48$   
 $7y < y^2$   
 $7y = 6$   
 $7y = 6$   
 $7y = 6$ 

Solve each system of equations using any method.

4) 
$$y = 2x - 4$$
 $y = 2x + 5$ 

Same slope

-parallel line.

5) 
$$x + y = 2$$
  $x + (-2 \cdot x - 1) = 2$   
 $y = -2x - 1$   $-x - 1 = 2$   $(-3,5)$   
 $-3 + y = 2$   $x - 2$   $x - 3$   $x - 3$ 

6)-
$$\frac{7}{5}x + 7y = -1$$
)  $-20 x - 28y = 4$   
 $\frac{5}{4}x - 2y = 22$ )  $20x - 10y = 110$   $(4,3)$   
 $\frac{5}{5}x + 7(-3) = -1$   
 $\frac{7}{5}x - 21 = -1$   
 $\frac{7}{5}x = 20$   $\frac{7}{5}(4) + 7(-3)$   $\frac{7}{5}(4) - 2(3)$   
 $\frac{7}{5}x = 20$   $\frac{7}{5}(4) + 7(-3)$   $\frac{7}{5}(4) - 2(3)$ 

- 7) Sam bought 4 calculators and 6 notebooks and spent \$42. Stephanie bought 6 calculators and 5 notebooks and spent \$55. Find the cost of each calculator and each notebook.
- 8) Lamis sells ice cream bars at baseball games for \$0.60 each. Her factory has \$800 in fixed costs plus \$0.20 of additional expense for each ice cream bar made. How many icecream bars must Lamis sell to break even?