

## Go Over HW Answers

$$1) 15x + 4y = 32 \quad y = -\frac{15}{4}x + 8$$

$$3) x - 12y = 43 \quad y = \frac{1}{12}x - \frac{43}{12}$$

$$5) x - 4y = 3 \quad y = \frac{1}{4}x - \frac{3}{4}$$

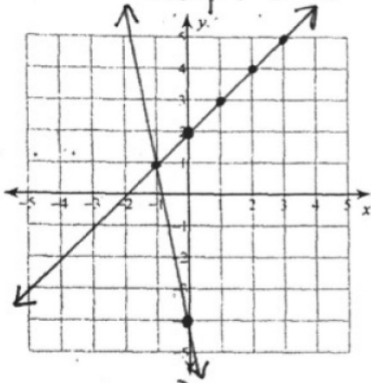
$$2) x + 4y = 4 \quad y = -\frac{1}{4}x + 1$$

$$4) x - 8y = -24 \quad y = \frac{1}{8}x + 3$$

$$6) x - y = -6 \quad y = \frac{1}{1}x + 6 \text{ or } y = x + 6$$

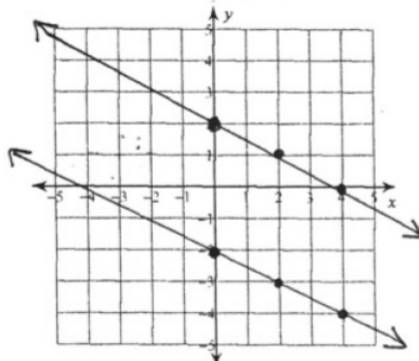
Solve each system by graphing.

7)  $y = -5x - 4$   $m = -5$   $b = -4$   
 $y = x + 2$   $m = 1$   $b = 2$



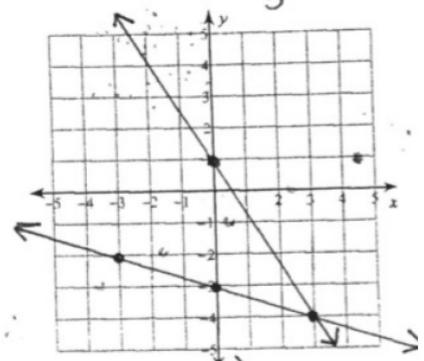
$(-1, 1)$

8)  $y = -\frac{1}{2}x + 2$   $m = -\frac{1}{2}$   $b = 2$   
 $y = -\frac{1}{2}x - 2$   $m = -\frac{1}{2}$   $b = -2$



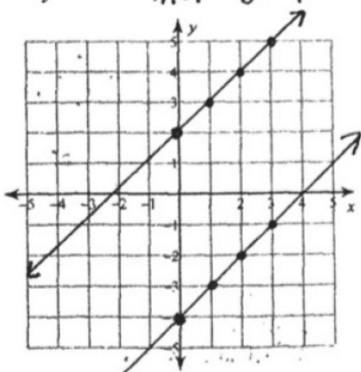
No solution

9)  $y = -\frac{5}{3}x + 1$   $m = -\frac{5}{3}$   $b = 1$   
 $y = -\frac{1}{3}x - 3$   $m = -\frac{1}{3}$   $b = -3$



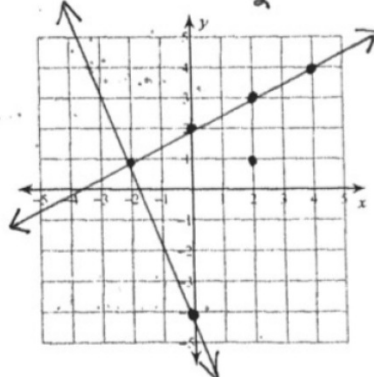
$(3, -4)$

10)  $y = x + 2$   $m = 1$   $b = 2$   
 $y = x - 4$   $m = 1$   $b = -4$



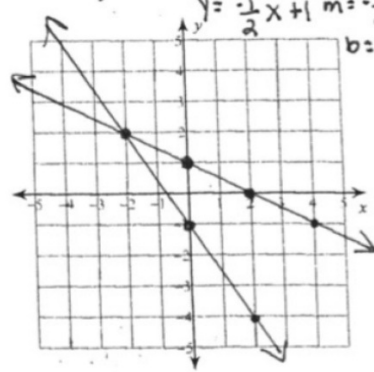
No solution

11)  $y = \frac{1}{2}x + 2$   $m = \frac{1}{2}$   $b = 2$   
 $y = -\frac{5}{2}x - 4$   $m = -\frac{5}{2}$   $b = -4$



$(-2, 1)$

12)  $3x + 2y = -2$   $y = -\frac{3}{2}x - 1$   $m = -\frac{3}{2}$   $b = -1$   
 $x + 2y = 2$   $y = \frac{1}{2}x + 1$   $m = \frac{1}{2}$   $b = 1$



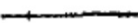
$(-2, 2)$

### When graphing system of equations...


- 1) Make sure BOTH equations are in  $y=mx+b$  form.
  - 2) Click on  $y=$
  - 3) Type in 1 equation into  $y_1$  and the other equation into  $y_2$ .
  - 4) Click on GRAPH
  - 5) Determine the # of Solutions (1, No, or Infinitely Many)
- \*\*If 1 Solution:**
- Click on 2<sup>nd</sup> and TRACE
  - Go down to 5 (Intersect)
  - Click Enter 3 times
  - Write answer as an ordered pair

**Practice. Show ALL work when rearranging equations into  $y=mx+b$**  Graph using calculator.


17)  $y = \frac{11}{5}x + 4$

$y = -\frac{1}{5}x - 8$  


18)  $y = \frac{1}{4}x - 2$

$y = \frac{1}{4}x + 8$  


19)  $y = \frac{4}{3}x - 2$

$y = -\frac{1}{3}x + 8$  


20)  $y = -\frac{7}{2}x + 2$

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


21)  $y = \frac{5}{2}x - 7$

$y = -x + 7$  


22)  $x - y = -8$

$4x + 9y = -45$  


23)  $y = 9$

$14x - y = 5$  


24)  $x - 5y = 30$

$14x - 5y = -35$  

25)  $4x - y = -8$

$4x + 3y = -24$  

26)  $2x - y = 7$

$x - 6y = -24$  

**Homework: Finish the Practice from previous slide. If you did not finish graphing all of the equations in the graphing calculator in class, finish for homework.**

