GALG 1 Ch 7 Review

Name: Block: Date:

Solve by graphing. State point of intersection (

1)
$$y = 2x - 3$$

 $y = x - 1$

$$m = 2 \quad \text{y-int } (0, 3) \quad 1$$

$$m = 1 \quad \text{y-int } (0, -1)$$

Hint: Put equations in slope intercept form first.

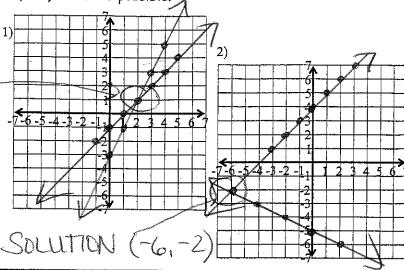
$$y = x + 4$$

$$2y = -x - 10$$

$$m = | y - int(0, 4)$$

$$y = -\frac{1}{2}x - 5$$
 m = $-\frac{1}{2}y - int(0, 5)$

) whenever possible.



Solve each system by using substitution. Show all work.

3)
$$y = x - 5$$

 $y = 3x - 10$

$$x-5=3x-10$$

$$y = x - 5$$

 $y = 2.5 - 5$ $y = -2.5$

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

 $y = 2x - 4$

$$X-4x+8=2$$

$$-3\times18=2$$

$$(x=2)$$
 (2.5)

5)
$$2x - 8y = 14$$

$$2(-3y+7)-8y=14$$

 $-6y+14-8y=14$



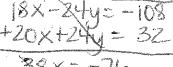
$$X = -3y + 7$$

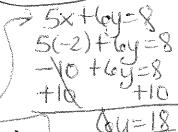
 $X = -3(0) + 7$

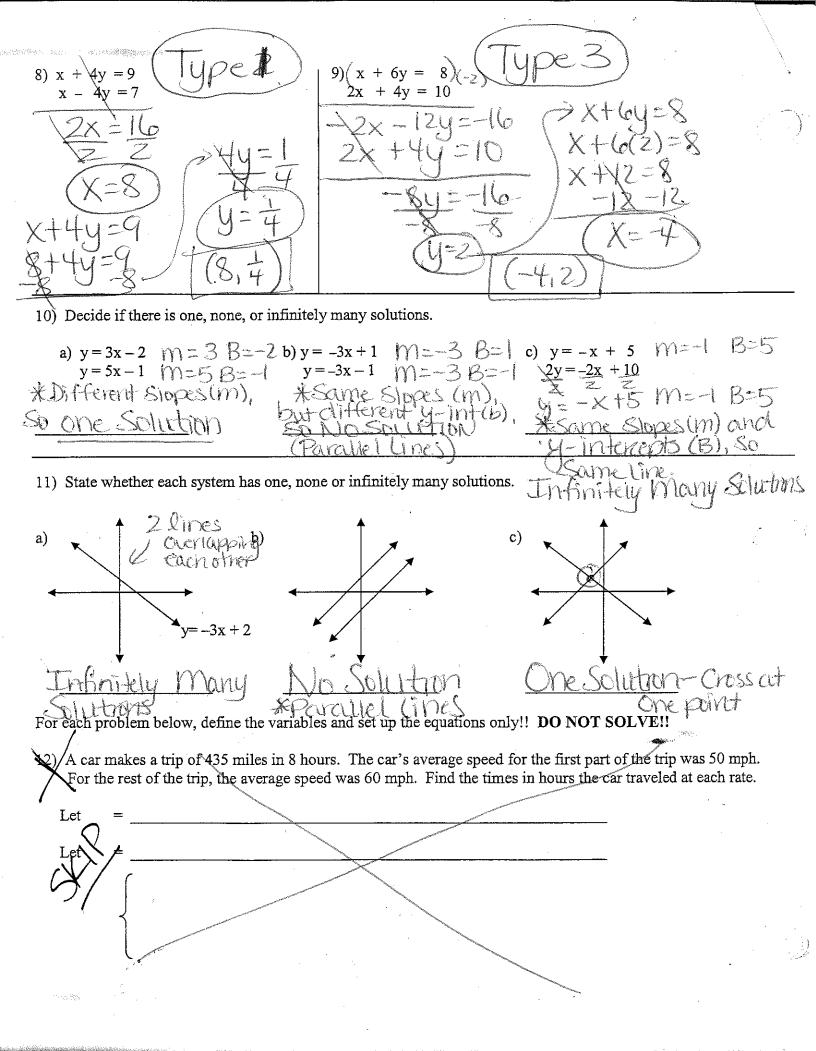
Solve each system by using elimination. Show all work.

6)
$$(2x - y = 5)^2$$
 Type 3
 $x + 2y = 25$

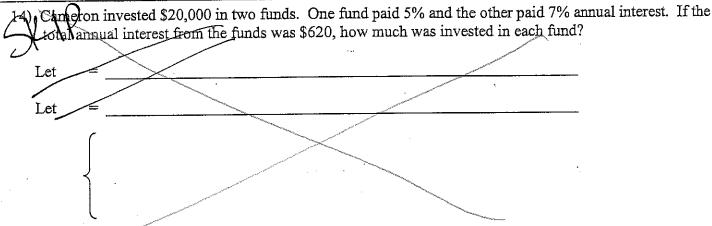
7)
$$(3x - 4y = -18)$$
 $(5x + 6y = 8) + 4$







13) The	length of a rectangle is 6 feet more than the vith of the rectangle.	width. The perimeter is 100 feet.	Find the length and length = WHa
Let	= width=w=		- 1 = 22+6 1 = 28-fee+
Let	$\{ w w + 6 \}$	4w+12=100 +w=88(+w=88(W=22feet)



15) A sporting goods store sells right-handed and left-handed baseball gloves. In one month, 12 gloves were sold for total revenue of \$561. Right-handed gloves cost \$45 and left-handed baseball gloves cost \$52. How many of each type of glove did they sell?

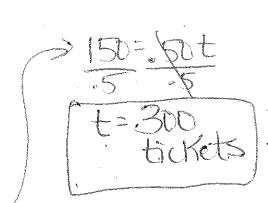
16) You need to choose between 2 bands for the dance. Band A charges \$500 plus \$0.75 for each ticket sold and Band B charges \$350 plus \$1.25 for each ticket sold. For how many tickets sold will the 2 bands cost be the same? What is the cost? Break Even Problem

= #of tickets

Let

Band B

500+.75t=350+1.25t -350 150+.75t=1.25t -.75t



17) Given the two functions, sketch and label their graphs. Then find the point or points of intersection.

$$y = x - 1 \qquad \qquad \bigcap = 1 \qquad \boxed{}$$

$$y = -2x + 3$$
 M=-2 B=3

