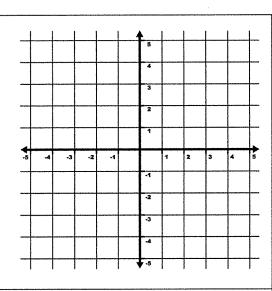
Hour_____

Systems of Equations Review

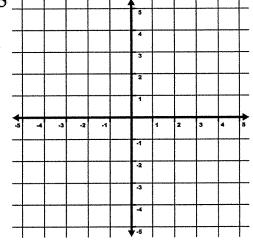
I can solve systems by graphing

Graph the equations by hand and find the solution.

$$y = x - 1$$
$$y = x + 1$$

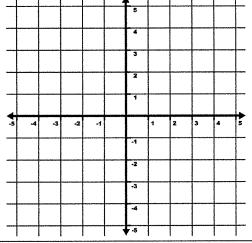


$$y = -2x - 3$$



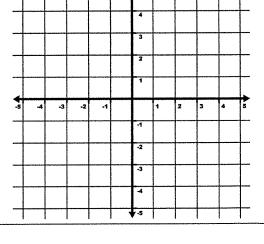
$$y = \frac{1}{2}x + 1$$

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



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

$$y = \frac{5}{2}x + 2$$



Graph the equations on the calculator and find the solution

$$y = 4x + 3$$
$$y = -2x + 9$$

$$y = -\frac{3}{2}x + 4$$
 $y = \frac{3}{2}x + 5$ $y = \frac{3}{7}x + 8$ $y = \frac{13}{7}x - 8$

$$y = \frac{5}{4}x - 7$$

$$y = \frac{3}{2}x + 5$$

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

$$y = \frac{3}{7}x + 8$$

$$y = \frac{5}{4}x - 7$$
 $y = \frac{1}{2}x - 1$ $y = -\frac{13}{7}x - 8$ $y = \frac{13}{7}x - 1$

$$y = \frac{13}{7}x - 8$$

$$y = \frac{13}{7}x - 1$$

I can solve systems by substitution

y = 2x	-2x - 6y = 0	y = -8x + 8
-6x + 3y = 0	y = -8x - 23	4x - 2y = 4
-2x - 4y = 14	y = -2x - 6	-7x + 3y = 19
y = -4x - 21	6x + 3y = -5	y = -4x

I can solve systems by elimination

6x - 7y = 1 $6x - 4y = -20$	-10x + 2y = -30 $-10x + 2y = -30$	2x - 8y = 2 $8x - 8y = 8$
Sit iy 20	100.12, 30	

-x-4y=-1	9x + 2y = -10	7x - 4y = -5
-x - 4y = -1 $-8x - y = -8$	-36x - 8y = 12	14x - 6y = 10

I can solve using any method

$y = -\frac{1}{3}x + 6$ $y = -4x - 5$	4x - 2y = -18 $y = 6x + 21$
-3x + 3y = -21 $y = x - 7$	14x - 4y = 6 $-7x + 5y = 24$

I can system of equation word problems

Ali's school is selling tickets to the spring musical. On the first day of ticket sales the school sold 5 senior citizen tickets and 4 child tickets for a total of \$98. The school made \$278 on the second day by selling 11 senior citizen tickets and 14 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
Several students decide to start a T-shirt company. After initial expenses for \$280, they purchase each T-shirt wholesale for \$3.99. They sell each t-shirt for \$10.99. How many must they sell to break even?
Olivia's family drove to Disney World for spring break. Her mom and dad shared the driving duties for a total of 14 hours. Her mom drove 65 miles per hour, and her dad drove 60 miles per hour. If they drove a total of 895 miles, how many hours did each person drive for?
Apple is selling used Iphones for \$150. Apple's expenses to repair the used phones cost \$1000 for parts and \$100 per phone for labor. How many Iphones must Apple sell to break even?