

Name _____

Date _____

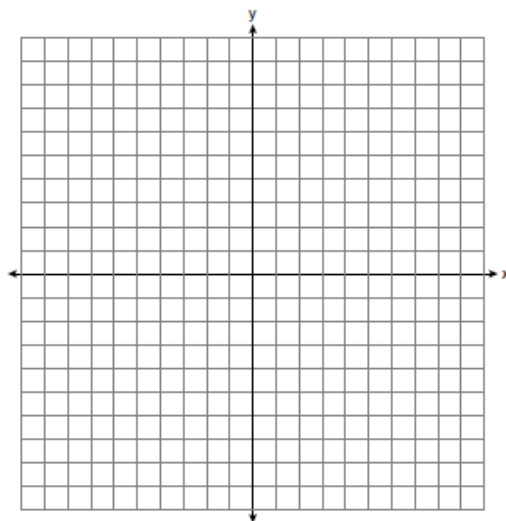
Homework #24 (Show All Work)

Period _____

1) On the grid below, solve the system of equations graphically for x and y .

$$4x - 2y = 10$$

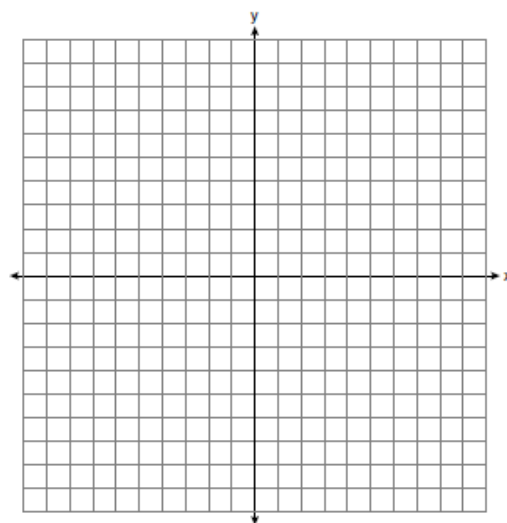
$$y = -2x - 1$$



2) Graph the following system of equations and determine the solution.

$$x + 2y = 14$$

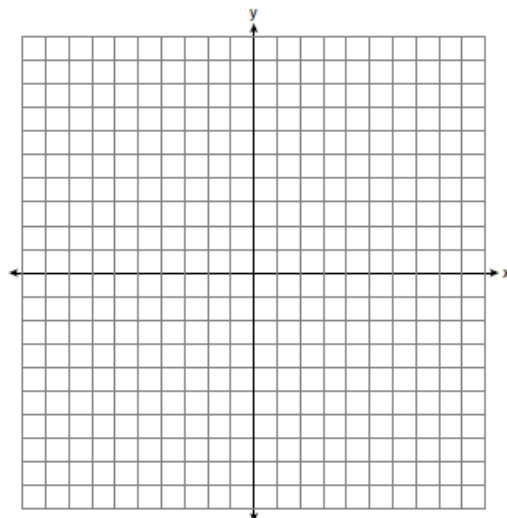
$$4x - 3y = 12$$



3) Solve the system of equations graphically. State the solution.

$$y = -\frac{1}{3}x + 4$$

$$x = 3$$



4) Kendra owns a restaurant. She decides to charge \$1.50 for 2 eggs and one piece of toast and \$.90 for one egg and one piece of toast. How much is she charging for each egg and each piece of toast?

5) Carla and Steve went shopping at Office Max. Carla bought 3 boxes of computer disks and 2 notebooks for a total cost of \$15.00. Steve bought 2 boxes of the same computer disks and 5 of the same notebooks for a total of \$18.25. Find the cost of each item.

6) The theater charges \$9 for each adult ticket and \$6 for each child ticket. The theater sold 144 tickets for the first showing of the new release. The total money collected from ticket sales for that show was \$1164. Write a system of equations that could be used to find the number of child tickets and the number of adult tickets sold, and solve the system algebraically.