## Kerry Ojakian's MTH 28.5 Class Class Assignment #11

For each equation, determine which pairs are solutions.

1. x + y = 3; pairs: (1, 2), (-1, 2), (5, -2)2. 2x + y = -4; pairs: (0, 0), (-2, 0), (0, -2)3. 2x + y - 1 = 0; pairs: (-3, 7), (1, 0), (0, 1)

Find the solution (should be a pair!) which has the given x value.

4. x + y = 3; x = 25. 2x + y = -4;  $x = \frac{1}{2}$ 6. 2x + y - 1 = 0; x = 2

Find 3 solutions of each of the following equations.

7. y = 3x - 210. -2x + 3y = 58. 2x + 5y = 1011. x = 3y - 49. x + y = 012. 3x + 4y = 5

13. Draw x and y axis on the right. Then plot the points (label each point by its letter).

- (a) (1,3)
- (b) (3,1)
- (c) (2, -2)
- (d) (-3,4)
- (e) (-1, -2)
- (f) (0,2)
- (g) (1.5,0)
- (h) (0,0)

- 14. For each point: If it is on an axis, state which axis it is on (x-axis or y-axis?). Otherwise, state which quadrant it is in (I, II, III or IIII?).
  - (a) (-4, 6)(d) (-50, -17)(b) (8, 10)(e) (-100, 0)(c) (0, 12)(f) (0.7, -188.9)
- 15. On graph paper, graph each equation by plotting some solutions and guessing what the rest looks like. Which of the graphs (if any), look like lines?
  - (a) x y = 0(b)  $y = x^2$ (c)  $y + x^2 = 1$ (d) y = 2x + 1

Graph the set of solutions of each of the following equations (on separate graph paper).

16. y = 3x - 218. x + y = 017. 2x + 5y = 1019. -2x + 3y = 5