## CUNY Problem set #2 ( To be used before Exam #2)

## Math 020, College of Staten Island

## Show all the work and circle the correct answer:

1) Find the equation of horizontal line passing through the point: (7,-4)

a) y=x-4 b)  $y=-\frac{4}{7}x$  c) x=7 d) y=-4

- 2) Find the slope and y-intercept of the line: 3x-6y=48
  - a) Slope=  $\frac{1}{2}$  and y-intercept: (0, -8)
  - b) Slope= -1/2 and y-intercept: (0, 8)
  - c) Slope= -3 and y-intercept: (0, 48)
  - d) Slope= 3 and y-intercept: (0, 8)
- 3) Find the equation of a vertical line passing through: (-2,5)

a) x = -2 b) y = x + 5 c)  $y = -\frac{5}{2}x$  d) y = 5

- 4) Find the slope and y-intercept of the line: 7y-4x= 21.
  - a) Slope= -4/7 and y-intercept: (0,3)
  - b) Slope = 4/7 and y-intercept :(0,21)
  - c) Slope= 7/4 and y-intercept: (0,-3)
  - d) Slope= 4/7 and y-intercept: (0,3)
- 5) Find the equation of a line that passes through the point (-3,4) and has a slope of  $\frac{-2}{3}$ . a) y = -2/3 x + 6 b)y = -2/3 x + 2 c) y = -2/3 x + 4 d) y = -2/3 x - 6
- 6) Find the equation of a line that passes through the points: (-2, 3) and (1,-9).
- a) Y= -2x-1 b) y=6x+12 c) y= -4x + 3 d) y= -4x -5

7) Find the equation of a line that passes through the points (-5,-6) and (-7,4) a)  $y = 1/6 \times -31/6$  b)  $y = 1/5 \times +13/5$  c)  $y = -5 \times +39$  d)  $y = -5 \times -31$ 

8) Solve the system below by Graphing:  $\begin{cases} -2x + y = 4 \\ 4x + 2y = 8 \end{cases}$ 

9)What is the value of the x-coordinate of the solution to the Following system:

 $\begin{cases} 3x + y = 3\\ -2x + 2y = -10 \end{cases}$ 

a) x= -3 b) x=2 c) x= -7 d) x= -2

10)If it takes <sup>3</sup>/<sub>4</sub> cup of vegetable oil to make 6 cup cakes, how many cupcakes can be made with 2 cups of vegetable oil?

a) 9 cupcakes b) 4 cupcakes c) 16 cupcakes d) 12 cupcakes

11)If a car travels 350 miles in 5 hours, at the same speed how long will it take to travel 560 miles?

a) 4 hours b) 6 hours c) 8 hours d) 10 hours