**Extra Credit 9 – 12**

**Extra #9**

**Solve by graphing (no calculator)**

**1.** 3x – y = 0  **2.** 2y – 8 = x **3.** x – 2y = 0

x – y = -2 y = x + 4 y = 2x - 3

**Extra #10**

**Solve using substitution**

**1.** 2x + y = 4 **2.** x – 9 = 3y

3x + 2y = 1 x + 2y = -1

**Solve using elimination.**

**3.** 6x + 3y = 6 **4**. = 5

8x + 5y = 12 = 4

**Solve using either substitution or elimination**.

**5.** 8x + 3y + 5 = 0 **6.** x - y = -2

10x + 6y + 13 = 0 x + y = 7

**Extra #11**

**Calculators allowed**

**Define 2 variables, write equations, solve by any method (substitution, elimination, graphing), and label your answers correctly.**

**1.** Karamagu had 50 nickels and dimes whose value was $4. How many of each kind of coin

did he have?

**2.** The sum of 2 numbers is 18 less than twice the first number. Their difference is 32 less

than twice the second number. Find the numbers.

**3.** The tens digit of a 2 digit number is 1 more than 4 time the units digit. If 63 is subtracted

from the number, the order of the digits is reversed. Find the number.

**Extra #12**

**Graph each inequality**

**1.** 3 – x > 0 **2.** 2y – 5x < 8

**Solve by graphing**

**3.** x > -2 **4.** y 2x – 3

2y 3x + 6 y x + 2

**5.** y > -x – 2 **6.** x > -1

y 3x + 2 y < x + 2

3y > 4x