$$.05(3D) + .10D = 1.50$$

$$.15D + .10D = 1.50$$

$$\frac{.35D = 1.50}{.35}$$

$$\frac{.35}{.35}$$

$$D = 6$$

$$N = 3(6) = 18$$

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

$$\frac{x+y=a_{1}}{x+a_{1}-y}$$

Quiz Review 6.1 to 6.4

Name: \_\_\_\_\_

Algebra 1

Period: \_\_\_\_\_ Date: \_\_\_\_

Complete problems 1 and 2 using Desmos:

1. Solve the following systems of equations:

a) 
$$2x + 5y = 12$$
  
 $5y = 4x + 6$  (1.2)

b) 
$$-3x-4y=-7$$
  
 $9x+12y=11$  No  
Solution

2. What is the difference of the x & y values in the solution to the system:

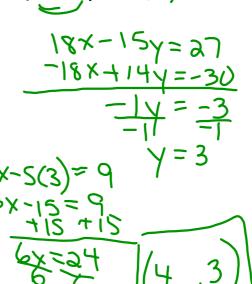
$$5x+4y=32$$
 (4,3)  
 $9x-y=33$  4-3=1

3. Solve the following systems of equations using *substitution*:

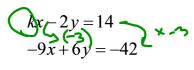
a) 
$$x + y + 3$$
  $x = 1 + 3b$ )  $-6x + y = 4$   $-6x + c$   $-$ 

4. Solve the following systems of equations using elimination:

a) 
$$4x+y=17$$
 $7y=4x-9$ 
 $-4x$ 
 $-1$ 
 $-1$ 
 $4x+y=17$ 
 $4x+y=17$ 
 $4x+y=17$ 
 $4x+y=19$ 
 $4x+y=$ 



5. For what value of k will the given system have infinitely many solutions?



- 6. An artist wants to sell prints of her paintings. She sees that an order with 45 regular photos and 30 glossy photos costs \$10.20, and an order with 15 regular photos and 12 glossy photos costs \$3.78.
- a) Write a system of equations to describe this situation.

$$(-3)$$
  $15R + 12G = 3.78(-3)$ 

b) How much does it cost for each regular photo and each glossy photo?

$$-45R + 30G = 10.20$$

$$-45R - 36G = -11.34$$

$$-16G = -1.14$$

$$-16G = -1.14$$

$$-16G = -1.14$$

$$-16G = -1.14$$

$$45R + 30(.19) - 10.20$$

$$45R + 5.70 = 10.38$$

$$6 = .19$$

c) How much would 32 regular photos and 12 glossy photos cost? 45R

3.20 + 2.28 - 5.487. Jacelyn has 75 coins in her piggy bank. All are quarters and nickels. Their total value is \$16.15.

a) Write a system of equations to describe this situation.

b) How many of each type of coin does she have?

$$-.250 -.25N = -18.75$$

$$-.25Q +.05N = 16.15$$

$$-.20N = -2.60$$

$$-.20N = -3.60$$

$$-.20$$
Quarter=

N=13