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

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

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

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

$$D = 6$$

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

$$x + 9 = 21$$
 $-9 - 9$
 $x = 12$

$$\begin{array}{c} x + y = a_{1} \\ 3x = 4y \\ x + a_{1} - y \end{array}$$

$$3(a)^{2}$$
 = 44
 $63-34=44$
 $+34+34$
 $-63=74$
 $-7=4$

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

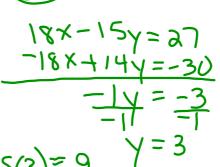
2. What is the difference of the x & y values in the solution to the system:

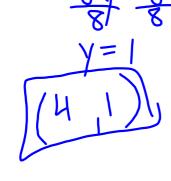
$$5x+4y=32$$
 (4,3)
 $9x-y=33$ 4-3=1

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

4. Solve the following systems of equations using elimination:

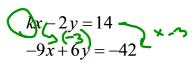
a)
$$4x+y=17$$
 $7y=4x-9$
 $-4x+1=17$
 $-4x+7=17$
 $-4x+7=-9$
 $-4x+7=-9$
 $-4x+7=-9$
 $-4x+7=-9$
 $-4x+7=-9$
 $-4x+7=-9$





$$6x-5(3)=9$$
 $6x-5(3)=9$
 $6x-15=9$
 $6x=24$
 $6x=4$
 $6x=4$
 $6x=4$
 $6x=4$

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 = 3.28(-3)

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

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

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

$$-16G = -1.14$$

$$-16G = -1.14$$

$$-18R + 30(.19) = 10.20$$

$$-18G = -1.14$$

$$-18G = -1.1$$

c) How much would 32 regular photos and 12 glossy photos cost? 452

- 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.

$$Q + N = 75 (-.25)$$

$$Q = 75 - N$$

$$Q = 75 - N$$

$$Q = 75 - 13$$
How many of each type of coin does she have?

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

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

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

$$-.20N = -2.60$$

$$-.20N = -3.60$$

$$-.20$$

$$-.20$$

$$-.20$$

$$-.20$$

$$-.20$$

$$-.20$$

$$-.20$$

$$-.20$$

$$-.20$$