Unit 2 HW 13 Name: _____

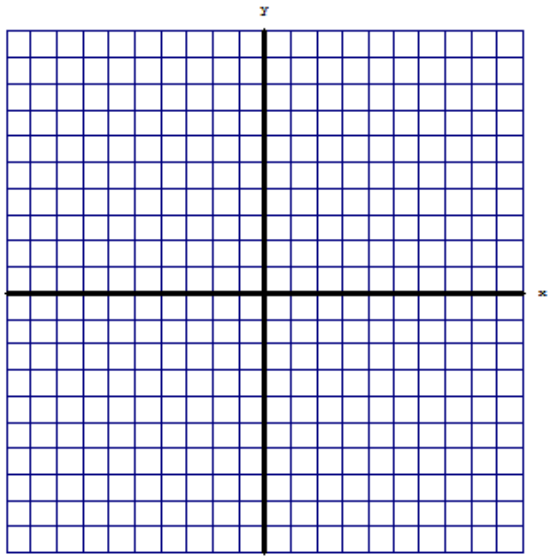
1. Let "**c**" be the cost of a carrot. Let "**a**" be the cost of an apple. Let "**p**" be the cost of a potato.

   a. Write an equation that would give you the total cost **"t"** of 7 apples, 14 carrots, 12 potatoes, and a $1.29 sales tax.

   b. What is the total cost if each apple is $0.59, each carrot is $0.19, and each potato is $0.39?

   c. What would be the cost of an apple if each carrot was $0.17, each potato was $0.35, and you paid a total of $10.46?

2. Solve the system using any method. $2x + y = -3$
   $-3x - 4y = -13$



3. You have two job offers:
   A. You get paid $0.03 per second
   B. You get paid $107.50 per hour

   Show work to provide evidence for which job offer you would accept if you work 5 days a week for 8 hours each day?

Solve for x.

4. $\frac{-4x+13}{5} > 3$

5. $-2(3x + 2) < -8(x - 5)$

6. Mr. Sacco went to Dunn Brothers this morning. A coffee costs $2.25 and a mufffin costs $1.75. He also left a $3 tip. Determine what each piece of the expressions means in context of the problem.

2.25c+1.75m+3

a. 2.25 _____

b. m _____

c. 1.75m _____

d. 2.25c+1.75m _____

e. 2.25c+1.75m+3 _____