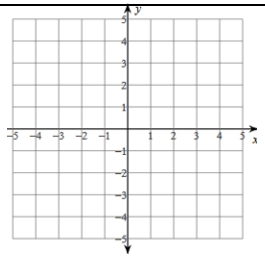
Math Homework Week: 15 Nov. 26-30 Name _____

MONDAY

The sum of two numbers is 47. Their difference is 19. Find the two numbers.	John has 60 coins consisting of quarters and dimes. The coins' combined value is $9.45. How many quarters does John have?
During a Techno-Geek store sale, Ryder finds 6 blank video tapes and 12 blank DVDs cost $35.10. He then discovers that 8 blank video tapes and 3 blank DVDs cost $27.95. What is the cost of a blank DVD?	Tyler solves a system of equations and gets the answer 0 = -1. Does this mean that x = 0 and y = -1? If not, what does this answer mean?
Cameron takes a test that is worth 100 points. Some questions are three points and some are worth eleven points. If there are 20 questions total, how many eleven point questions are there?	
If you solve a system and get an answer like: 8 = 8, what is the answer?	If you graph a system of equations and have parallel lines, what is the answer?

TUESDAY

Solve the system. $2x - 5y = -6$ $-3x + y = -4$	Solve the system by the elimination method. $-10x + 7y = -23$ $-5x + 2y = -13$
Solve the system. (Beware of the order!) $-14 = -20y - 7x$ $10y + 4 = 2x$	Solve: 3x – 2y = 6 y = 1.5x – 3
Shade the intersection for the following system of inequalities: (on the graph to the right) $y > -\frac{4}{3}x - 3$ $y < \frac{1}{3}x + 2$	
Devin is selling tins of popcorn for $5 and cans of nuts for $8. He sells a total of 240 items and makes $1614. How many of each were sold?	

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WEDNESDAY

Solve the system by the elimination method.

$$6x + 2y = -16$$
$$-x - 3y = -16$$

Solve the system.

$$8x - 3y = -22$$
$$-5x + y = 19$$

Solve the system by the elimination method.

$$-5x - 2y = 2$$
$$6x - 2y = 24$$

Write a system of inequalities for the following: Sequorya bakes cakes and pies to sell. It takes her 2 hours to make a cake and 3 hours to make a pie. She only has 50 hours for baking. She wants to have at least 5 cakes and at most 8 pies. Let x = the number of cakes and let y = the number of pies.

Heather is organizing a play for her school's drama club. She is getting the tickets printed and has found two companies that she could possibly use to print the tickets.

TICKETS R US has a flat rate: Every 25 tickets printed costs $4.00.

PROMO PRINTERS has a $10 startup fee and then every 25 tickets cost $2.00.

Write a system of equations for the situation on the left. Let x = the number of 25 ticket bundles. Let y = the cost of printing the tickets.

Eq:_____

Eq:_____

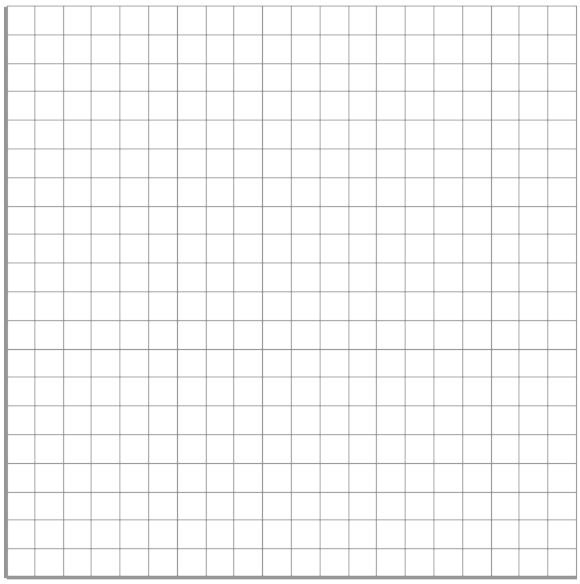
Solve this algebraically. Should you use substitution or elimination?

What does the solution mean?

Which company should Heather choose if she needs 75 tickets (3 packs)?

Which company should Heather choose if she needs 500 tickets?

Solve the system graphically.



THURSDAY

Work on Test Review!!!