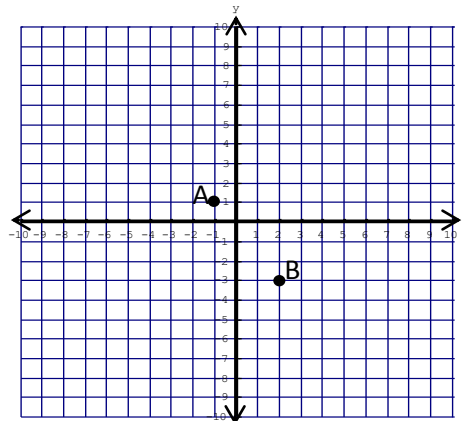


April 5-11

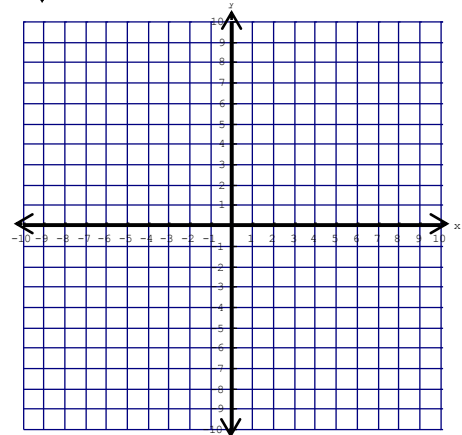
Date: _____

Friday

1. What is the distance from A to B?



2. Graph a system of two equations that has a single solution of $(-2, -4)$ and give the equation for each of your lines.



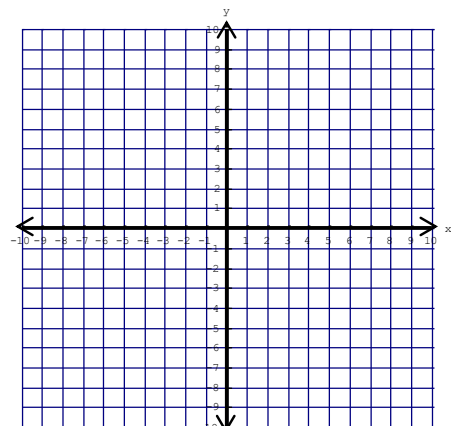
3. When Kyle solved this linear system, he ended up with the equation $0=0$. What is the solution to the system? Explain your answer.

$$2x + 3y = 6$$

$$4x = 12 - 6y$$

4. Create an equation that has no solution. *Verify your answer with support work and/or a written explanation.*

5. Line segment AB begins at point A $(-3, 2)$ and ends at point B $(1, -2)$. The segment is translated by $\langle x - 2, y + 1 \rangle$ and then reflected across the y-axis to form segment A'B'. Draw your translations and find the length of segment A'B'.



Tuesday

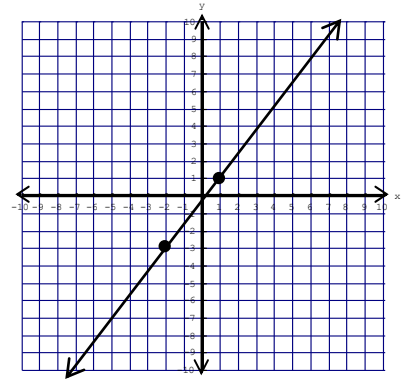
Period: _____

1. Which transformation is not an isometry?

- a) rotation b) reflection c) translation d) dilation

2. What is the rate of change for the given line?

Write an equation that has a greater rate of change and graph it.



3. Alice thinks that there is one solution for $c = ax - bx$ if a , b , and c are non-negative integers.

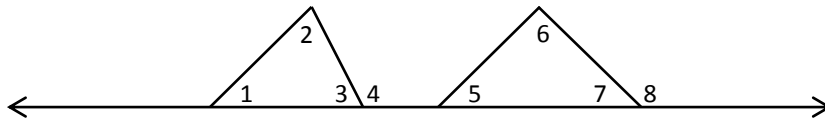
What values of a , b , and c would result in no solution? All real numbers? (*These are counter examples to the original conjecture.*)

4. What is the rate of change for the function represented by the table?

Write an equation for a different function with the same rate of change.

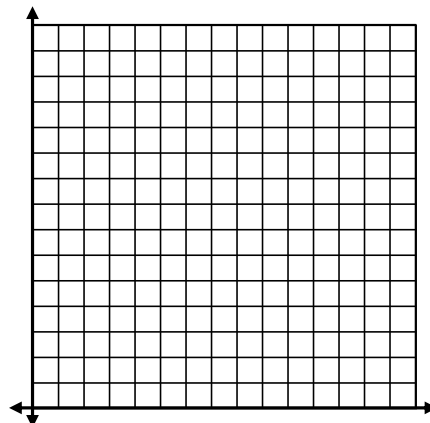
x	y
-2	-4
0	-6
2	-8

5. The bases of both triangles lie on a line. The measure of angle 4 is less than the measure of angle 8 ($m\angle 4 < m\angle 8$). Write a comparison for the $m\angle 3$ and $m\angle 7$, and for $(m\angle 1 + m\angle 2)$ and $(m\angle 5 + m\angle 6)$.



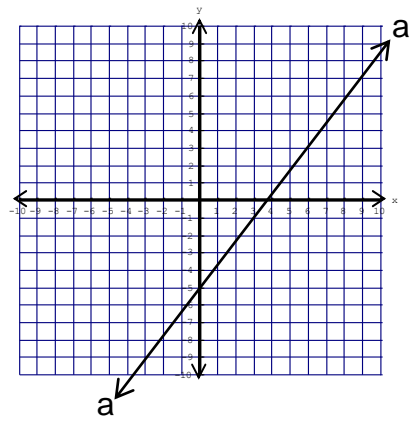
6. The table shows the relationship between the hours of practice and the percentage of free throws made. Draw a graph of the data. Describe the function that models this data (in words, paragraph form).

hours	%
0	50
1	62
2	71
3	76
4	68

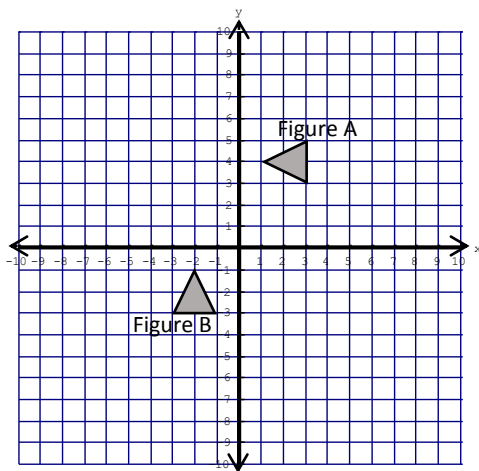


Wednesday

1. Draw a line “b” such that lines “a” and “b” have a solution of $(3,-1)$ and the y-intercept of line “b” is positive and the slope of line “b” is less than 0 but greater than -1 .



2. Describe a set of transformations that includes a rotation around the origin that moves figure A onto figure B.



3. What is the rate of change in the number of people in the theater per hour?

Time	# People
6:00	350
7:00	300
9:00	200
10:00	150

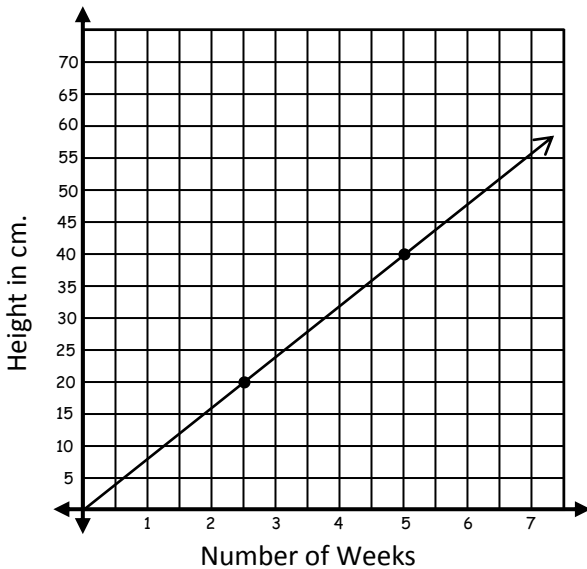
4. The local batting cage gives batting lessons for \$50 and pitching lessons for \$60. This week, they offered pitching lessons for \$52 and 10% off batting lessons. They did 16 pitching lessons and 21 batting lessons. They need \$1900 per week to pay their bills. Did they make enough?

Thursday

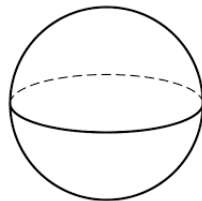
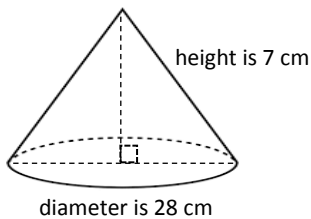
1. Brandon's car can travel $85\frac{1}{2}$ miles on $4\frac{1}{10}$ gallons of gas. How far can he travel on one gallon?
2. The eighth grade students were asked about their ownership of a computer and television. Fill in the empty boxes representing the totals and answer the following questions.

	television	no television	total
computer	127	138	
no computer	89	78	
total			

- a. How many students own a computer but do not own a television? _____
 - b. How many students do not own a computer? _____
 - c. What percentage of students interviewed own a television and a computer? _____
3. Write an interpretation (which includes the rate) of the given graph showing a plant's growth.



4. The cone and the sphere have equal volumes. (Not drawn to scale.)



What is the radius of the sphere?