

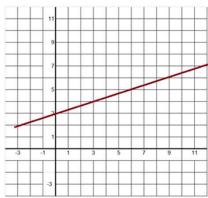
2th	Grade	Quarter	2 Evam
oun	GIZUE	JUNIEL	Z EXAIII

Name _____

Closed Book; 60 minutes to complete; show units; show work.

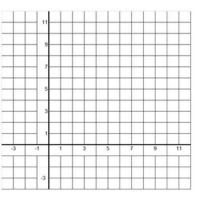
1. The slope of a straight line is 2. The y intercept of the line is 12. What is the equation that the line represents?

2. What equation in slope-intercept form does this line represent?



3. These two points are on a straight line: (0, 6), (3, 12). What equation is represented by the straight line?

4. Draw a line that represents this equation: y = 3 + 2x

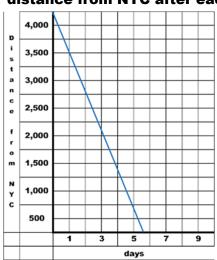


5. Write an equation for a line with a slope of 5 that goes through this point.

3				
5	•			
7				
9				
11				

6.

A cruise ship leaves Stockholm heading for New York City. This graph shows the distance from NYC after each day. Interpret the y Intercept and the x Intercept



,	
x intercept	
y intercept	

7. Solve these system of linear equations:

		Solution	
Equation 1	Equation 2	х	у
y = 5x + 4	y = 2x + 3		
y = x - 6	y = 4 - 2x		
y = -4x - 12	y = .75x + 11.75		

8. A burger and a smoothie costs \$5. You and your friends buy 3 burgers and 6 smoothies, and the bill comes to \$21, How much does a burger cost? How much does a smoothie cost?

burger	smoothie

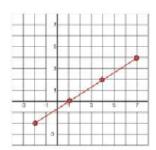
9. Please convert the equation to a Function

Equation	Function
2x + 3y = 63	
y - 5x = 17	

10. You have \$40 to spend on your evening with a friend at the Carnival. You want to buy some ride tickets (y) and also some food tickets (x). The ride tickets are \$4 each. The food tickets are \$6 each. What is the domain and the range of the tickets you could purchase?

Domain	Range

11. Find the Domain and the Range of the function represented in this graph.



Domain	Range

12. Find the Domain and Range of the the function represented by this table.

hats (x)	4	3	2	1
belts (y)	10	8	6	4

Domain	Range

13. Big State University studied the idea that the gas mileage (m) of a vehicle decrease as the number of wheels (w) on the vehicle decreased. They came up with a function that they felt described the relationship: m = 96.75 ö w. Is there a discrete or a continuous domain?

14. The equation f = 0.305m can be used to convert meters into feet. Is the Domain of this function Discrete or Continuous?

п			
п			

15.

Your teacher says that your tomatoe plant will grow 1.25" taller each month. It is now 6' tall. Write a formula that will tell you how tall your plant is at any time in the future. Is there a continuous or a discrete domain?

formula	
Discrete or	
Continuous?	

16. Are these functions linear or non-linear

Function	Re-written	Linear or Non-Linear		
x + y = 6				
3y = 9x - 12				
xy = 16				

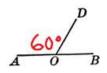
17. Does this table represent a linear function?

х	У
0	6
1	8
2	10
3	12
4	14
5	16

18. Angle 2 is 28°. How big is Angle 3?

3/2	
 4	_

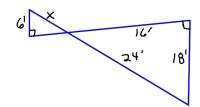
19. How many degrees are in Angle DOB?



20. The triangle has 2 obtuse angles and an acute angle. Is this possible? Explain.

21. What is the Sum of the Angles of this polygon? 22. This is the flag of South Africa. What is the sum of the angles of the green polygon on the flag? 23. This is a regular polygon. How many degrees are in angle A? 24. These are similar triangles. Find x. 25. Find Angle z. 26. Triangle A and B are similar. Two of Triangle A's angles are 42° and 67°. Two of Triangle B's angles are 67° and 71°. How many degrees are in the third angle of **Triangle B?**

27. Find x



	Results						
%	?'s	# of ?'s	Wrong	Concept			
	1-4	4		821 Writing Equations in Slope-Intercept Form			
	5-6	3		822 - Writing Equations using a Point and a Slope			
	7-8	8		823 Writing Systems of Linear Equations			
	9-12	8		824 Domain and Range of a Function			
	13-15	4		825 Discrete and Continuous Domains			
	16-17	7		826 Comparing Linear and Nonlinear Functions			
	18-20	3		827 Classifying Angles and Sides of Triangle			
	21-23	3		828 Angles of Polygons			
	24-27	4		829 Parallel Lines, Transversals & Similar Triangles			
		44		Total			