1A Ready, Set, Go

Name _____ Per: _____

NO WORK, NO CREDIT. PENCIL ONLY.			
1. The x-intercept is where the line crosses the	$_$ This is where $_$ = 0.		
2. The y-intercept is where the line crosses the	This is where = 0.		
3. $y = mx + b$. What does the <i>m</i> represent?			
4. a. Explain how you can find the slope of an equation.			
How about the x and y intercepts from an equation.			
b. Explain how you can calculate slope of a table.			
How about the x and y intercepts from a table.			
c. Explain how you can calculate slope of a graph.			
How about the x and y intercepts from a graph.			
5			
x y a. Find the slope/rate of change for the	table to the left.		
1 0 b. What is the y-intercept for the table?			
c. Write the equation for the line:			
3 80 d. What is the x-intercept for the table?			
6.			
x y a. Find the slope/rate of change for the t	able to the left.		
-1 150 b What is the v-intercept for the table?			
c. 1 450 Write the equation for the line:			
Extra Credit: Find the x-intercept for the	e table		
 7. Find the slope, x-intercept, y-intercept, and equation for Don't forget to write the intercepts as an ordered pair. a. Slope b. What is the x-intercept? c. What is the y-intercept? d. Write the equation for the line 	0 -5		
Find the slope , y-intercept and x-intercept (EC) for the follo			
8. $y = 6x - 24$ 9 Slope: y-intercept:	y - 2x + y = 12 Slope: y-intercept:		
E.C. x-intercept:	E.C. x-intercept:		
Find the slope , y-intercept and equation of the line that pass 10. (4, 6) and (10, -12) 1 Slope: y-intercept: Equation: E.C. x-intercept:	tes through the given points. 1. (-3, 5) and (4, 19) Slope: y-intercept: Equation: E.C. x-intercept:		

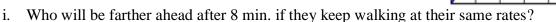
12. The student council provided treats and paid for students to attend a ski party for Christmas. The following shows how much they spent for various numbers of students at the party. Complete the table.

# of students	Pattern	Resort Cost	Short Hand
3		\$180	
4		\$230	
п		\$\$	

- a. Write the above given data as coordinate points. _____
- b. How much did the treats cost? ______. Explain______
- c. Is the relationship between the number of people and total cost linear?
- d. How do you know? _____
- e. What is the cost per student? _____. Explain_____.
- E.C. Explain how to use your equation to find the cost for 20 students?

E.C. If the student council pays \$1930, find how many students attended the party? SYW

- 13. Josh stops at Austin's house on his way to the gym. Austin's mother says that Austin left a couple of minutes ago. Josh leaves Austin's house, walking quickly to catch up with Austin. Label the graph below to show the distance and time each boy walks from Austin's house if the grid lines are worth 1 minute (x-axis) each and 200 feet (y-axis) each.
 - a. Label which line is Austin and which is Josh
 - b. Write & label Josh's unit rate:
 - c. Circle on the graph where they meet.
 - d. How long does it take Josh to catch Austin?_____
 - e. How far does Josh walk before they meet?
 - f. What is Austin's walking rate?
 - g. How can you determine the walking rate by looking at the graph? _____
 - h. Each graph intersects the distance axis (the y-axis). What information do these points of intersection give about the situation?



j. Fill in the two tables to show Josh and Austin's positions.

	Josh		
X	Pattern	У	Shorthand
Χ		Y	

	Χ		Y		Χ	Y	
1.	How ma	any minutes head sta	art did A	Austin get?			

- m. How can you see this in the graph?
- n. Estimate the x-intercept for Austin's graph line: (, 0)

\vdash	+ +	+		
\vdash				
		\mathcal{V}		
	1			

Austin				
X	Pattern	У	Shorthand	
Χ		Y		

<u>-</u>------
