	leady, Set, (Name	Per:
		r. PENCIL ONLY. stand parts of slope-intercept equ	utions. Due: Aug 28 th /Aug	29 th
1. The	e x-intercept i	s where the line crosses thes where the line crosses the	This is where	= 0.
		What does the <i>m</i> represent?		
4. a. I F b. I	Explain how y Iow about the Explain how y How about the	you can find the slope of an equa x and y intercepts from an equa you can calculate slope of a table e x and y intercepts from a table	ntion ntion e	
		ou can calculate slope of a grap		
5.	x y 1 0 3 80 5 160 x y -1 150 0 300 1 450	 a. Find the slope/rate of chang b. What is the y-intercept for t c. Write the equation for the li d. What is the x-intercept for t a. Find the slope/rate of change b. What is the y-intercept for t c. Write the equation for the slope/rate of change b. What is the y-intercept for t c. Write the equation for the slope/rate of change b. What is the y-intercept for t 	e for the table to the left he table? ne: he table? e for the table to the left he table? e line:	
Do Find th	n't forget to w a. Slope b. What is t c. What is t d. Write the slope, y-int 6x - 24	intercept, y-intercept, and equ vrite the intercepts as an ordere he x-intercept? he y-intercept? e equation for the line cercept and x-intercept (EC) for y-intercept:	d pair. the following equations. 92x + y = 12	h
		ept:		cept:
	, 6) and (10, – Slope: y-intercept: _ Equation:		11. (-3, 5) and (4, 1 Slope: y-intercept: Equation:	.9)

E.C. x-intercept:	
-------------------	--

12. The student council reserved a room 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.

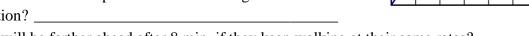
# of students	Pattern	Resort Cost	Short Hand
3		\$180	
4		\$230	
n		\$\$	

- a. Write the above given data as coordinate points. _____
- b. How much did the room 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 (xaxis) each and 200 feet (v-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 the lines cross. What does that mean in context of the story?_____
 - 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 (rate of change) 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?



- i. Who will be farther ahead after 8 min. if they keep walking at their same rates?
- j. Fill in the two tables to show Josh and Austin's positions.

	Josh		
X	Pattern	у	Shorthand
Χ		Y	

Austin		
Pattern	у	Shorthand
	Y	

- k. How many minutes head start did Austin get? _____
- 1. How can you see this in the graph?

T - -1-

m. Estimate the x-intercept for Austin's graph line: (