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## ALGEBRA 2 JOURNAL Models, Inequalities & Absolute Value

INSTRUCTIONS: Complete each of the following questions on this sheet of paper. Journals are always due on Review Day.

1.	(a) When <u>solving an equation</u> containing several fractions, the best thing to do is						
	(b) If you get a result of 4 = 0 when solving an equation, then the appropriate answer is						
	c) If you get a result of 5 = 5 when solving an equation, then the appropriate answer is						
2.	(a) What should first be done to the compound inequality $3x + 2 > 4x - 5 < 2x + 7$ before attempting to solve for $x$ ?						
	(b) After solving each separate inequality for x, what final step must be performed in any compound						
	inequality in order to determine the final solution?						
	(c) After solving and graphing a compound inequality on a number line, the solutions of an OR problem are located						
	(b) The solutions of an AND problem are located where						
3.	The testing points method for solving an inequality should be used when						
	When testing points, you want the solutions if the expression is > 0, while you want the solutions if the expression is < 0.						
5.	The two steps required to solve any equation or inequality containing one <u>absolute value</u> are:						
_	1 2						
6.	(a) When solving inequalities containing an absolute value, the point in the problem when you can determine whether to use AND or OR is <u>when</u>						
	(b) You know whether to use AND or OR by remembering the saying						
7.	(a) Matrix addition/subtraction is possible when						
	(b) Matrix multiplication is possible when						
	(c) A 7 x 3 matrix is multiplied by a 3 x 4 matrix. The dimensions of the result will be						
8.	(a) When adding/subtracting two numbers involving significant digits, the answer should be rounded to the smallest number of in the original measurements.						
	(b) When multiplying/dividing two numbers involving significant digits, the answer should be rounded to the smallest number of in the original measurements.						
	(c) A multiplication calculation involves two measurements and one fixed number. You determine how many digits to round the final answer to by looking at						

9.	(a)	A scatter plot has a correlation if both variables increase or both variable decrease while the other					both variables			
	(b)	A scatter plot has variable decrease		correlation if one variables increases while the other						
10.	(a)	When creating a scatter plot on your calculator, you must create a								
	document to enter the data.									
	(b)	(b) To create the scatter plot, you must first create a new page by pressing								
		and then select a			type of d	locument.				
	(c)	To change how the	he graph is scale	ed you must go to	o	to	make			
		the changes.								
11.	Lis of t	mportant Rules, Formulas, Etc. List the following rules, formulas, or steps. When giving formulas, be sure to indicate what each part of the formula represents.  List the steps necessary for solving an inequality by testing points.								
		1	,		, ,,					
	<b>b</b> )	) List the five rules of significant digits.								
	U)	1.	s of significant c	4.						
		2.			5.					
		3.								
	c)	) Draw a scatter plot showing each of the following.								
			L							
		no correlation		positive correlat	tion ne	egative correlation	on			
	d)	Fill in the following table with the 6 sets of numbers.								
		Name of Set	Symbol	3 examples	Name of Set	Symbol	3 examples			
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