

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 adding or subtracting two numbers involving significant digits, you determine how many digits to round the final answer to by _____
_____.
- (b) When multiplying or dividing two numbers involving significant digits, you determine how many digits to round the final answer to by _____
_____.
- (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 _____
_____.
2. (a) When solving an equation containing several fractions, the best thing to do is _____
_____.
- (b) If you get a result of $3 = 3$ when solving an equation, then the appropriate answer is _____
_____.
- (c) If you get a result of $2 = 0$ when solving an equation, then the appropriate answer is _____
_____.
3. (a) A scatter plot has a _____ correlation if one variable decreases while the other increases.
- (b) A scatter plot has a _____ correlation if both variables increase or both variables decrease.
4. (a) When creating a scatter plot on your calculator, you must create a _____
_____ document to enter the data.
- (b) To create the scatter plot, you must first create a new page by pressing _____
and then select a _____ type of document.
- (c) To change how the graph is scaled you must go to _____ to make
the changes.
5. (a) After solving and graphing a compound inequality on a number line, you determine the solutions of an AND problem by looking where _____.
- (b) The solutions of an OR problem are where _____.
6. When variables in an inequality are multiplied or divided, the inequality must be solved by using the _____ method.
7. When testing points, you want the _____ solutions if the expression is < 0 , while you want
The _____ solutions if the expression is > 0 .
8. The two steps required to solve any equation or inequality containing one absolute value are:
1. _____ 2. _____

9. (a) When solving inequalities containing an absolute value, the point in the problem when you can determine whether to use AND or OR is when _____

(b) You know whether to use AND or OR by remembering the saying _____

10. (a) Matrix addition/subtraction is possible when _____

(b) Matrix multiplication is possible when _____

(d) If a 5×9 matrix is multiplied times a 9×2 matrix, the dimensions of the resulting matrix will be: _____

11. Important Rules, Formulas, Etc.

List the following rules, formulas, or steps. When giving formulas, be sure to indicate what each part of the formula represents.

a) List the five rules of significant digits.

- | | |
|----|----|
| 1. | 4. |
| 2. | 5. |
| 3. | |

b) Draw a scatter plot showing each of the following.



no correlation



positive correlation



negative correlation

c) List the steps necessary for solving an inequality by testing points.

d) Fill in the following table with the 6 sets of numbers.

Name of Set	Symbol	3 examples	Name of Set	Symbol	3 examples