Algebra 3/Trig – Dieckmann Name

**Logarithmic Weekly** Hour

Rough Draft Due Date: ***MARCH 31st*** Final Draft Due Date: ***APRIL 4th***

INSTRUCTIONS: If you turn this in on the Rough Draft deadline or before, the problems will be checked and returned to you. You may then revise your work and turn in a final draft. You may turn in a rough draft one time per weekly. After the rough draft deadline, assignment is considered in its final draft and ***CANNOT*** be corrected for credit. Each Weekly assignment will have three questions worth five points each. Please be sure to circle/box your final answers and label each question.

This is my (circle one): ROUGH DRAFT FINAL DRAFT

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| 1) Solve the following equation. Show all your work.$$4^{log\_{4}\left(3x+2\right)}=32$$ | Rough Draft | Final Draft |
| Full CreditStill needs work | Score: /5 |
| 2) Order the following from least to greatest: A) $log\_{3}12$ B) $log\_{7}29$ C) $log\_{12}117$ D) $log\_{2}15$ Write the letter for each expression below: \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_  (least) (greatest) | Full CreditStill needs work | Score: /5 |
| C:\Users\ccarteronw\Desktop\blank-graph.gif3) Graph the following exponential equation and logarithmic equation on the coordinate plane below. Use a graphing calculator to find where the functions intersect.$$f(x)=4^{(x+2)}-3$$$$g(x)=log\_{4}\left(x+3\right)-2$$Intersection(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Full CreditStill needs work | Score: /5 |