6.4: Exponential & Logarithmic Functions

Graphing Calculator Exercises

Use the TI-84+ calculator for the following exercises that require graphing.

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| 1. Graph the function  2. What is the inverse of Graph this function.  3. Provide a table of values for the inverse function.   |  |  | | --- | --- | | X | Y | | 1 |  | | 2 |  | | 4 |  | | 8 |  | | 16 |  |   4. Draw the line y = x. Are the two graphs symmetric about the line?  Yes No | Image result for cartesian plane |
| 5. Graph the following function. Identify the domain and range. List any intercepts or asymptotes. Describe the end behavior.    Domain:  Range:  x-intercept:  y-intercept:  Asymptote(s):  End behavior:  As \_\_\_\_\_\_\_\_  As \_\_\_\_\_\_\_\_ | Image result for cartesian plane |

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| 6. Find the equation of the inverse of each function. Graph both functions  a. | Image result for cartesian plane |
| b. | Image result for cartesian plane |