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 |

|  |  |
| --- | --- |
| 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 |