**PART 1 (Warm-up):**

The following table shows values for two functions, *f* and *g*. Determine the missing values **A, B,** and **C**. **Show all work.**

|  |  |  |
| --- | --- | --- |
| ***x*** | ***f(x)*** | ***g(x)*** |
| −1 | 0.125 | 18.5 |
| 0 | 0.5 | 13.5 |
| 1 | 2 | 8.5 |
| 2 | 8 | 3.5 |
|  |  |  |
| 4 | 128 | **B** |
| 5 | **A** | −11.5 |
|  |  |  |
| **C** | 524,288 | −36.5 |

**PART 2 (Time to think a little more):**

The following question is not exactly like a previous question from notes. I have not taught you specific steps on how to solve this type of question. However, if you think about the information that you do know about exponential functions, you will be able to answer this question. I am not expecting you to solve this the same way that another classmate may solve this…but do want to know how you solved this question. I want to know why you did what you did.

The following table shows values from an **EXPONENTIAL** function, J(x). Find the missing values **D** and **E.**  Show all work AND explain how you arrived at your solutions. Are you sure that the values you found are correct? Explain. Write a description that could be used by a student in class to solve this problem or a similar problem.

|  |  |
| --- | --- |
| ***x*** | ***J(x)*** |
| 0 | **D** |
| 1 | **E** |
| 2 | 12.8 |
|  |  |
| 4 | 2.048 |