Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Directions:** Marissa and Doug are given two tables of values (shown below). They are told one is a linear equation and one is an exponential equation. Marissa thinks that table A is exponential and table B is linear, while Doug thinks table A is linear and table B is exponential. Who is correct? Construct a mathematical argument to convince a classmate.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table A**

|  |  |
| --- | --- |
| **X** | **Y** |
| -2 | 6 |
| -1 | 8 |
| 0 | 10 |
| 1 | 12 |
| 2 | 14 |

 | **Table B**

|  |  |
| --- | --- |
| **X** | **Y** |
| 0 | 1 |
| 1 | 2 |
| 2 | 4 |
| 3 | 8 |
| 4 | 16 |

 |