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>
<tr><th colspan="2">Table A</th></tr>
<tr><th>X</th><th>Y</th></tr>
<tr><td>-2</td><td>6</td></tr>
<tr><td>-1</td><td>8</td></tr>
<tr><td>0</td><td>10</td></tr>
<tr><td>1</td><td>12</td></tr>
<tr><td>2</td><td>14</td></tr>
</table>

<table>
<tr><th colspan="2">Table B</th></tr>
<tr><th>X</th><th>Y</th></tr>
<tr><td>0</td><td>1</td></tr>
<tr><td>1</td><td>2</td></tr>
<tr><td>2</td><td>4</td></tr>
<tr><td>3</td><td>8</td></tr>
<tr><td>4</td><td>16</td></tr>
</table>