***What’s the Difference?***

**Algebra**

**Unit 3 Line Master 1**

Determine the rate of change between pairs of consecutive rows in the table.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **Exercise Intensity (watts)** | **Heart Rate  (bpm)** | | 0 | 60 | | 10 | 70 | | 20 | 80 | | 30 | 90 | | 40 | 100 | | 50 | 110 | | |  | | --- | | **Difference** | |  | |  | |  | |  | |  | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **Exercise Intensity (watts)** | **Heart Rate  (bpm)** | | 60 | 115 | | 70 | 117 | | 80 | 119 | | 90 | 120 | | 100 | 121 | | 110 | 121 | | |  | | --- | | **Difference** | |  | |  | |  | |  | |  | |

What do you notice?

Does each table represent a linear relation or a non-linear relation?   
How do you know?