Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_\_

**Sequences to Tables**

Instructions: For each table, create the equation. To be able to write the equation, show the rate of change and work backwards to fill in the Output for when the Input is 0. Complete the process column and the remaining outputs.

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
| 0 |  |  |
| 1 |  | 5 |
| 2 |  | 7 |
| 3 |  | 9 |
| 4 |  | 11 |
| 5 |  |  |
| 6 |  |  |
| 50 |  |  |
| *n* |  |  |

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
| 0 |  |  |
| 1 |  | -7 |
| 2 |  | -10 |
| 3 |  | -13 |
| 4 |  | -16 |
| 5 |  |  |
| 6 |  |  |
| 50 |  |  |
| *n* |  |  |

1. 2)

3) Hint: Rewrite vertically with a Process column.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Input** | 0 | 1 | 2 | 3 | 4 | 5 | 10 | *n* |
| **Output** |  | 7 | 17 | 27 |  |  |  |  |