**Name**

 **Period Date**

# PHYSICS UNIT I WS#3: GRAPHING PRACTICE

For each data set below, create a graph in LoggerPro to determine the relationship between the variables. First graph the given data with the first column as the independent variable and the second column as the dependent variable. Then look at the shape of the graph and the table of common relationships to determine the relationship. Turn in all four graphs with proper title, labels, and relationship statement.

 Data set Data set 2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Voltage, V (Volts)** | **Current, I (amps)** |  | **Time, t** **(s)** | **Distance, d (m)** |
| 0.25 | 15.0 |  | 0.10 | .03 |
| 0.30 | 20.0 |  | 0.20 | .12 |
| 0.40 | 24.2 |  | 0.50 | .75 |
| 0.50 | 31.0 |  | 1.00 | 3.0 |
| 0.75 | 45.0 |  | 2.00 | 12 |
| 1.0 | 59.8 |  | 3.00 | 27 |
| 1.23 | 74.2 |  | 4.00 | 48 |
| 1.6 | 101.3 |  | 5.00 | 75 |

Data set 3 Data set 4

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Age, A** **(months)** | **Weight, W (lbs)** |  | **Mass, m (kg)** | **Acceleration, a (m/s2)** |
| 1 | 6.5 |  | 0.25 | 2.789 |
| 2 | 9.4 |  | 0.325 | 2.236 |
| 3 | 10.7 |  | 0.4 | 1.758 |
| 4 | 12.0 |  | 0.528 | 1.48 |
| 5 | 13.0 |  | 0.54 | 1.462 |
| 6 | 14.5 |  | 0.55 | 1.439 |
| 7 | 15.6 |  | 0.56 | 1.435 |
| 89101112 | 16.717.418.018.619.0 |  | 0.6 | 1.339 |