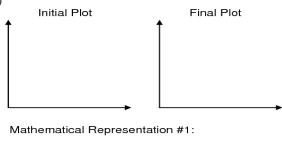
Name	Period

UNIT IIA WORKSHEET 2: SCIENTIFIC METHODS GRAPHING PRACTICE AND MATHEMATICAL REPRESENTATIONS

- Use LoggerPro to manually enter each of the data sets below. Assume the 1st column in each data set to be the **independent** variable and the 2nd column the **dependent** variable.
- 2. Sketch and name the shape of the intial plot and label the axes with variable name, variable symbol. (unit).
- variable symbol, (unit).3. Taking clues from the shape of the initial plot, use LoggerPro to transform the data to plot a straight line.
- 4. Sketch the shape of the final (linearized) plot and label the axes with variable name, variable symbol, (unit).
- Using the slope and y-intercept of the linear graph, write the exact mathematical representation describing the curve (include units!). Treat all values below as measurements, so report constants to proper significance.

Data Set 1 (Clock Reading and Velocity)

t (s)	v (m/s)
.30	10.
1.22	21
2.76	30.
4.84	42
7.51	51
10.80	60.
14.75	72
19.24	81



Data Set 2 (Clock Reading and Position)

x (m)
.030
.122
.756
3.040
12.181
27.893
48.667
75.384

