NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ HOUR\_\_\_\_

Physics A: Graphing with TI’s

For the pairs of data below, 1)determine the dependent and independent variable, 2)enter the data in your calculator, 3)select an appropriate regression equation and write it down with variables that make sense in the context of the data, and 4)draw a sketch of your data points and the regression equation on the same axes with the variables labeled and units indicated

depth 8 12 15 20 23 27 31

pressure 2500 3680 4695 6090 7000 8195 9385

time (p.m.) 1 2 3 4 5 6 7 8 9 \*calc in

# people in 48 33 15 10 24 43 50 40 32 *radians*

a restaurant

time out of the 1 2 3 4 5 6

microwave

temp of pizza 136 116 98 84 71 60

MOTION DATA

After collecting time and distance data for constant speed and constant acceleration, complete the same steps as on the other side of this handout.

Constant speed:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Constant acceleration:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |