Graphing

**Distance** is the responding variable and has units of **m.**  
**Time** is the manipulated variable and has units of **s.**

1) Plot a graph using the following data:

|  |  |
| --- | --- |
| **Distance (m)** | **Time (s)** |
| 6.2 | 1 |
| 9.4 | 2 |
| 13.8 | 3 |
| 17.5 | 4 |
| 22.4 | 5 |

a. What type of relationship is this?

b. Calculate the slope.

c. Write an equation describing the relationship between d and t.



2) Plot a graph using the following data:

|  |  |
| --- | --- |
| **Distance (m)** | **Time (s)** |
| 1.9 | 1 |
| 9.2 | 2 |
| 17.1 | 3 |
| 33.2 | 4 |
| 48.4 | 5 |

a. What type of relationship is this?

b. Complete the table and plot d vs. t2

|  |  |  |
| --- | --- | --- |
| **Distance (m)** | **Time (s)** |  |
| 1.9 | 1 |  |
| 9.2 | 2 |  |
| 17.1 | 3 |  |
| 33.2 | 4 |  |
| 48.4 | 5 |  |

b. What type of curve is this?

c. Calculate the slope.

d. Write an equation describing the relationship between A and B.