Hand Plotting Motion graphs Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Consider a walking speed of 4 MPH = 4 M/H.

2. Complete the table for the distance walked as a function of time.
(Time🡪independent variable, Distance🡪dependent variable)

|  |  |
| --- | --- |
| Time (Hour) | Distance (Mile) |
| 0 |  |
| ¼ (= 0.25) |  |
| ½ (= 0.5) |  |
| ¾ (= 0.75) |  |
| 1.0 |  |
| 1.25 |  |
| 1.5 |  |

3. Plot Distance Versus Time, graph below. (Distance on the Vertical or Y-axis, Time on the horizontal or X-axis)

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4. Find the slope of the Distance Versus Time graph. Show all of your work, include units.

5. What is represented by the slope of Distance Versus Time graph?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Interpretation of motion graphs Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Motion graphs of three objects (A, B, and C) are shown below.



1. Name the above graph.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Determine the speeds of objects A,B, and C.
3. Rank the speeds of the objects in increasing order.