**SC20F Physics Worksheet: Graphs Name:**

1. For the following d-t graph, identify which line(s) represent an object that is:



* 1. Going the fastest
	2. Going the farthest
	3. Going the slowest
	4. Not moving
	5. Speeding up
	6. Slowing down
	7. Moving backwards
1. For the following v-t graph, identify the which line(s) represent an object that is:
	1. Going the fastest
	2. Going the slowest
	3. Speeding up forwards
	4. Speeding up backwards
	5. Not moving
	6. Going at a constant velocity
2. For the following graph, plot a d-t graph (distance on the vertical axis and time on the horizontal).



|  |  |
| --- | --- |
| **Time (s)** | **Distance (m)** |
| 0 | 0 |
| 1 | 2 |
| 2 | 4 |
| 3 | 6 |
| 4 | 8 |
| 5 | 10 |

1. What does the slope of the line tell you?
2. Calculate the slope of the line.
3. For the following graph, plot a v-t graph (velocity on the vertical axis and time on the horizontal).



|  |  |
| --- | --- |
| **Time (s)** | **Velocity (m/s)** |
| 0 | 8 |
| 1 | 6 |
| 2 | 4 |
| 3 | 2 |
| 4 | 0 |
| 5 | -2 |

1. What does the slope of the line tell you?
2. Calculate the slope of the line.