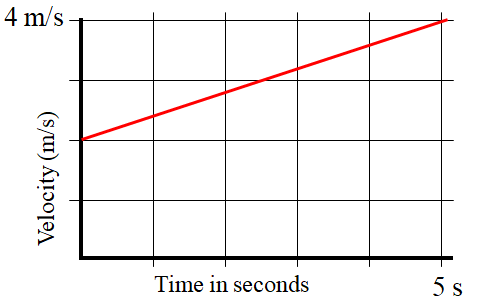
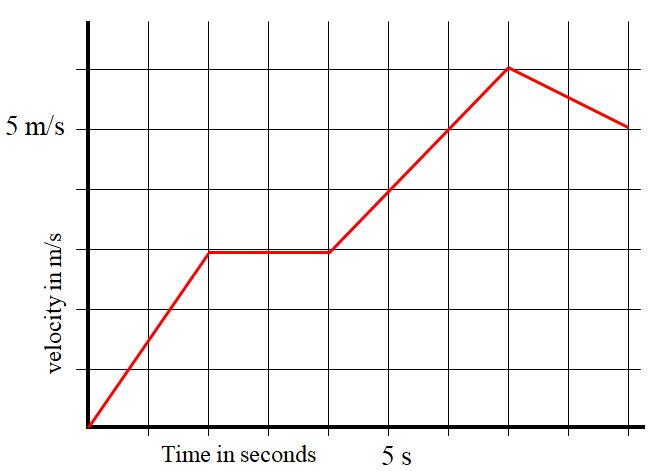
**Noteguide for Velocity Graphs - Videos 2G Name**

**Slope of velocity graphs:**



What does the slope on a velocity graph mean?

Whiteboards:

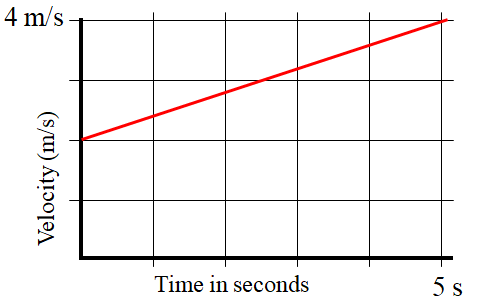


Keep in mind that when you find the slope, you should use the entire line segment.

|  |  |
| --- | --- |
| 1. What is the Acceleration at 1.15887 seconds? (1.5 m/s/s) | 2. What is the Acceleration at 8.1 s? (-0.50 m/s/s) |

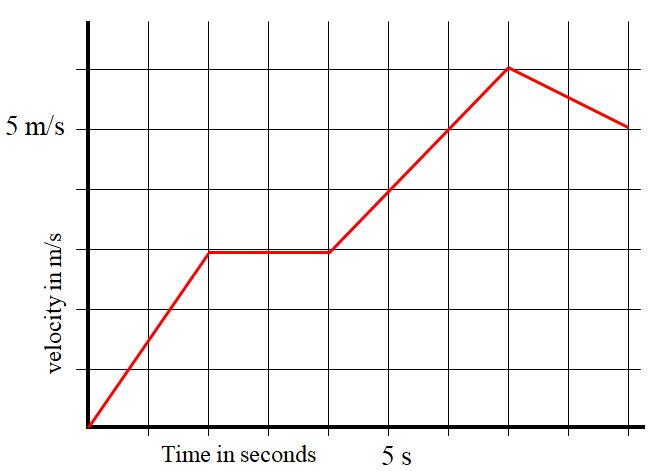
(In calculus the slope is the derivative)

**Area under velocity graphs:**



What does the area under a velocity graph mean?

Whiteboards:



"Area under" means the area between the graph and the x-axis. The units of this "area" are meters in this case, so it's not area in a strict sense. Graph areas can have all kinds of different units.

|  |  |
| --- | --- |
| 1. What displacement between 2 and 4 seconds? (6.0 m) | 2. What displacement between 4 and 7 seconds? (13.5 m) |

(In calculus the area under is the integral)