

SPH3U: Velocity-Time Graphs and Displacement

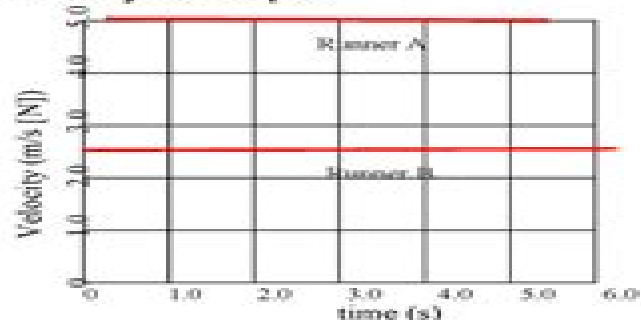
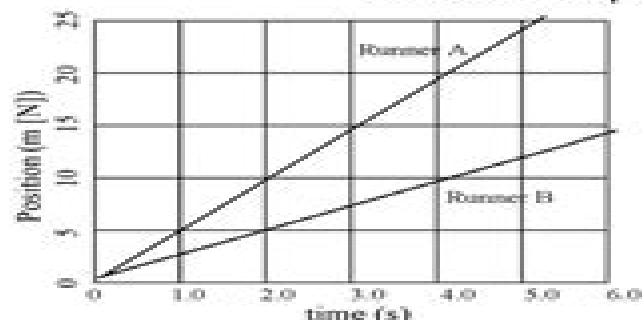
On a **position-time** ($\vec{d} - t$) graph,

1. the **slope** of the graph represents velocity.

On a **velocity-time** ($\vec{v} - t$) graph,

2. the **slope** of the graph represents acceleration.
3. the **area under the graph** represents displacement.

Position-Time Graphs and Velocity-Time Graphs



1. What is the **slope** of the **position-time** graph for Runner A?
5.0 m/s [N]
2. What is the **slope** of the **position-time** graph for Runner B?
2.5 m/s [N]
3. What is the **displacement** (change in position) of Runner A after 4 s?
20 m [N]
4. What is the **displacement** of Runner B after 6 s?
15 m [N]
5. What is the **area under the velocity-time** curve for Runner A from 0 to 4 s?
5.0 m/s [N] $\times$ 4 s = 20.0 m [N]
6. What is the **area under the velocity-time** curve for Runner B from 0 to 6 s?
2.5 m/s [N] $\times$ 6 s = 15.0 m [N]
7. What is the **slope** of the **velocity-time** curve for Runner A?
0 m/s/s (0 m/s²)
8. What is the **slope** of the **velocity-time** curve for Runner B?
0 m/s/s (0 m/s²)

Displacement And Velocity Graph Skills Answer Key

Camilla Rothe

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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