

HW# 1

Graphing problem

The figure shows a plot of velocity vs. time for an object moving along the x -axis. Which of the following statements is true?

- (A) The average acceleration over the 11.0 second interval is -0.36 m/s^2
- (B) The instantaneous acceleration at $t = 5.0 \text{ s}$ is -4.0 m/s^2
- (C) Both A and B are correct.
- (D) Neither A nor B are correct.

Note: $\Delta x \neq \frac{1}{2} a_{\text{avg}} \Delta t^2$

