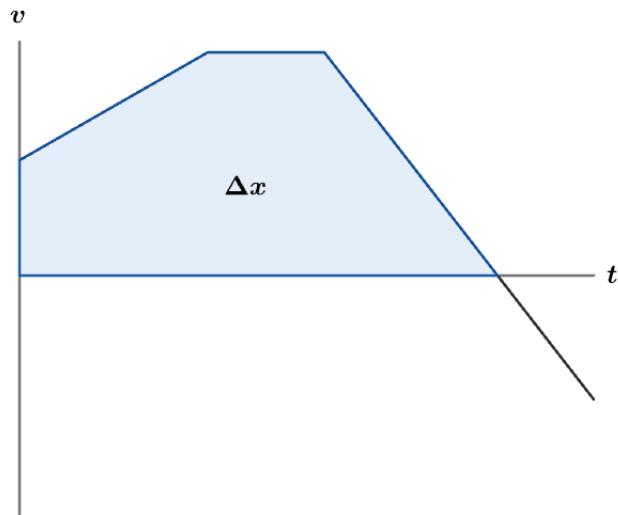


## 2008 F=ma Exam: Problem 4

Kevin S. Huang

On a velocity-time graph, the displacement is given by the area under the curve.



Thus, the maximum displacement occurs when the velocity goes to zero (at  $t = 2.5 \text{ s}$ ). From the graph, we have  $\Delta x = 7 \text{ m}$  so the answer is  D.