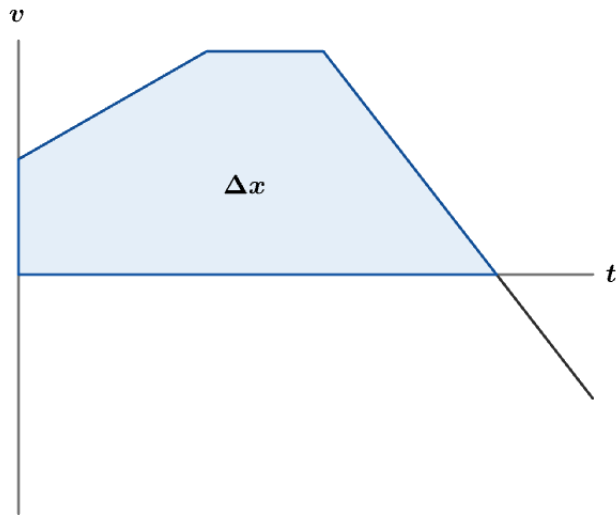


## 2008 F=ma Exam: Problem 4

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  $t = 2.5$  s). From the graph, we have  $\Delta x = 7$  m so the answer is D.