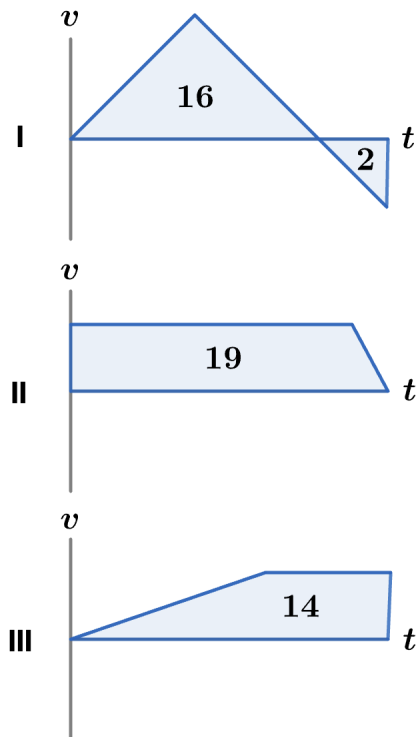# 2011 F=ma Exam: Problem 4

Kevin S. Huang

Recall distance corresponds to the unsigned area under the graph for a v-t plot.

In our case, we find from the plots: $d_1 = 18, d_2 = 19, d_3 = 14$ so

$$d_2 > d_1 > d_3$$

Since these quantities are all positive, taking the magnitudes leaves the ranking the same. Thus, the answer is $\boxed{\text{B}}$.