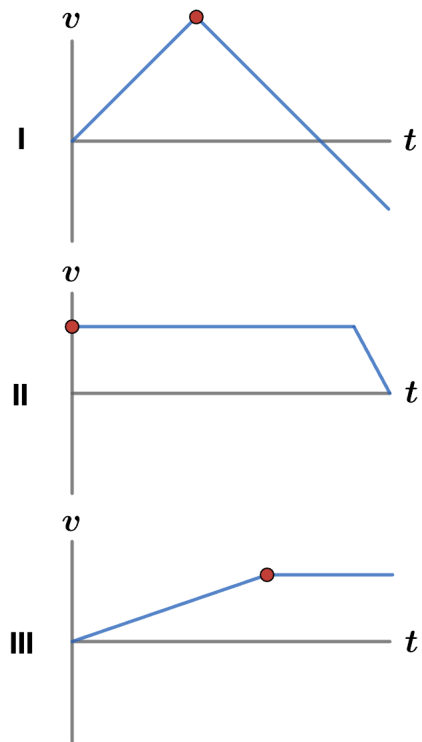# 2011 F=ma Exam: Problem 3

Kevin S. Huang

Recall the maximum velocity corresponds to the maximum value of the graph for a v-t plot.

In our case, we find from the plots

$$v_{1,\text{max}} > v_{2,\text{max}} = v_{3,\text{max}}$$

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