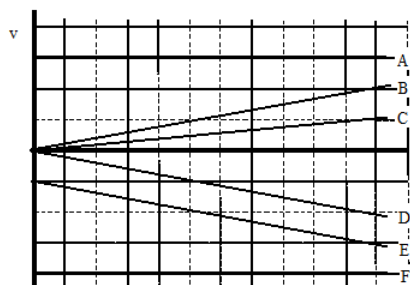


Below are velocity vs. time graphs for six different objects.



Rank these graphs on the basis of the distance traveled by each object.

Largest 1. F 2. A 3. E 4. B 5. C 6. _____ Smallest

_____ The ranking can not be determined based on the information provided.

Explain the reason for your ranking:

The faster you travel, the more distance you travel. The direction you are headed is not important. Therefore, F travels the largest distance because it is always moving the fastest, followed by A. E is consistently traveling faster than D, so it covers a larger distance than D. B and D always travel at the same speed (although in opposite directions) so they cover the same distance, therefore they are ranked as equal. C travels the slowest so it covers the least distance.