Position Time Graphs—Displacement [8]

In the position vs. time graphs below, all the times are in seconds (s), and all the positions are in meters (m). Rank these graphs on the basis of which graph indicates the greatest displacement from beginning to end of motion. Give the highest rank to the one(s) with the greatest displacement, and give the lowest rank to the one(s) indicating the least displacement. If two graphs indicate the same displacement, give them the same rank. Note: Zero is greater than negative, and ties are possible.
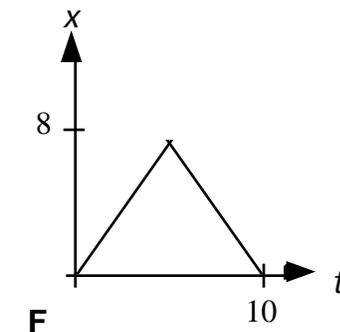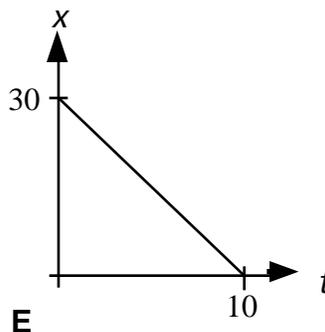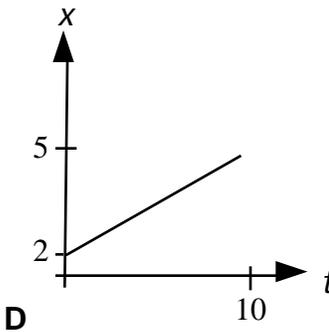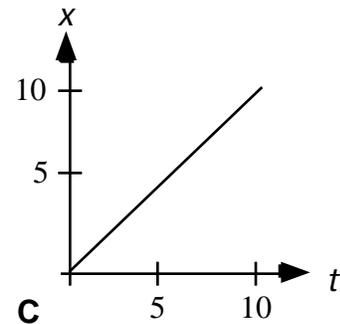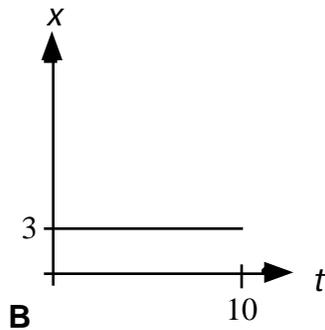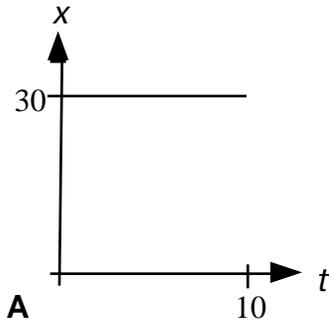
Greatest   1_____   2_____   3_____   4_____   5_____   6_____   Least

Or, none of these graphs indicate any displacement at all. _____

Or, all of the displacements are the same. _____

Please carefully explain your reasoning.

How sure were you of your ranking? (Circle one)

Basically Guessed				Sure				Very Sure		
1	2	3	4	5	6	7	8	9	10