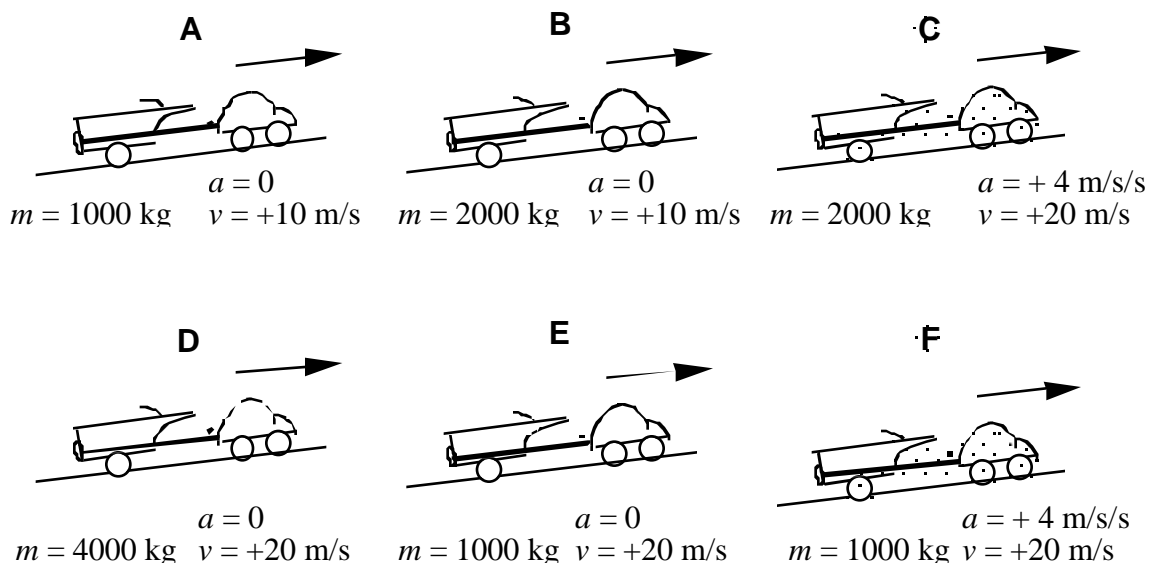


Car and Boat Trailer on an Incline—Force Difference ³¹

Rank from greatest to least on the basis of the difference between the strength (magnitude) of the force the car exerts on the boat trailer and the strength of the force the boat trailer exerts on the car. All the cars are identical, but the boat trailers have different loads, so the boat trailer masses vary as specified on the diagram. All inclines are the same.



Greatest 1_____ 2_____ 3_____ 4_____ 5_____ 6_____ Least

Or, the differences between the two forces are the same in each situation. _____

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

³¹ P. Golden, A. Dickison, D. Maloney, T. O’Kuma, C. Hieggelke