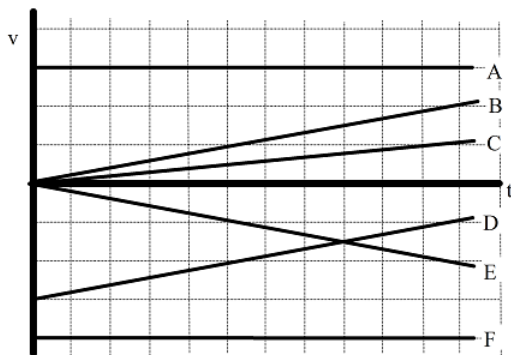


I-111

Below are velocity vs. time graphs for six equal-mass objects.



a. Rank these graphs on the basis of the change in momentum of the object over the time interval indicated. Rank positive changes in momentum as larger than negative changes in momentum.

Largest 1. ____ 2. ____ 3. ____ 4. ____ 5. ____ 6. ____ Smallest
 ____ The ranking can not be determined based on the information provided.

Explain the reason for your ranking:

b. Rank these graphs on the basis of the change in kinetic energy of the object over the time interval indicated. Rank positive changes in kinetic energy as larger than negative changes in kinetic energy.

Largest 1. ____ 2. ____ 3. ____ 4. ____ 5. ____ 6. ____ Smallest
 ____ The ranking can not be determined based on the information provided.

Explain the reason for your ranking:

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