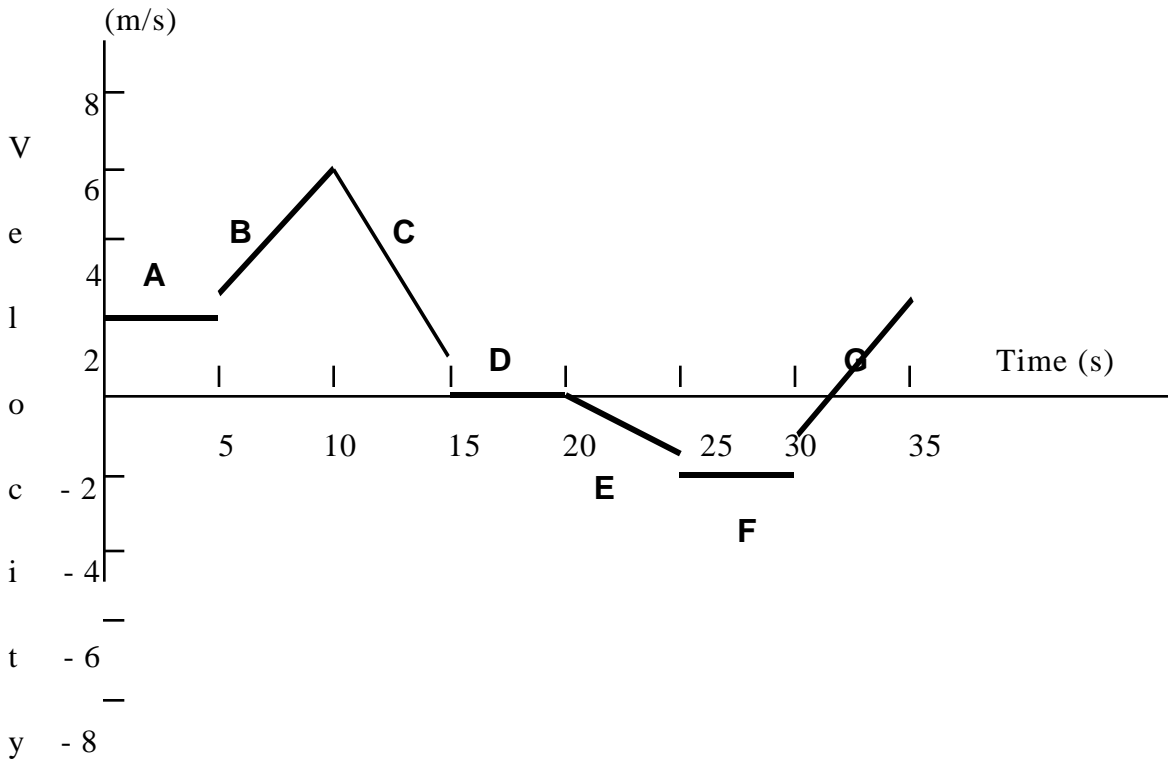


Velocity Time Graph—Work Done on Box ⁷⁰

Shown below is a graph of velocity versus time for an object that moves along a straight, horizontal line under the, perhaps intermittent, action of a single force exerted by an external agent.

Rank the intervals shown on the graph, from greatest to least, on the basis of the work done on the object by the external agent.



Greatest 1_____ 2_____ 3_____ 4_____ 5_____ 6_____ 7_____ Least

Or, the agent does the same amount of work during all of these intervals. _____

Or, the agent does not work during any of these intervals. _____

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

⁷⁰ C. Hieggelke, D. Maloney, T. O’Kuma