

4

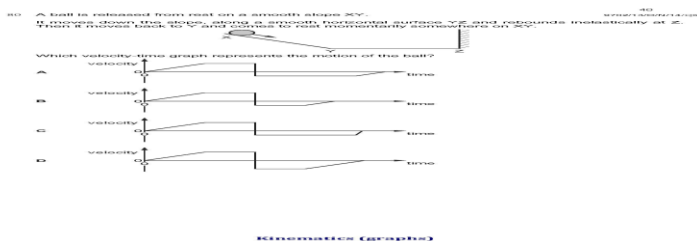
A ball is released from rest on a smooth slope XY.

It moves down the slope, along a smooth horizontal surface YZ and rebounds inelastically with the wall at Z. Then it moves back to Y and comes to rest momentarily somewhere on XY.



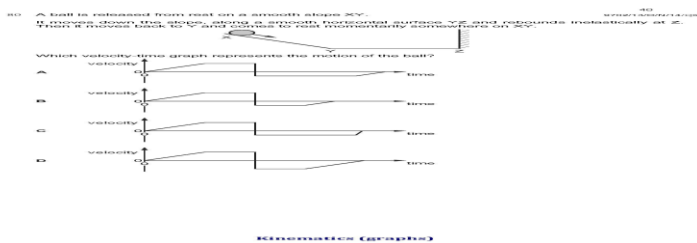
Which velocity-time graph represents the motion of the ball?

A



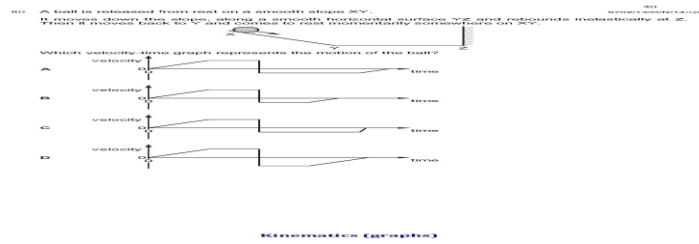
velocity

B



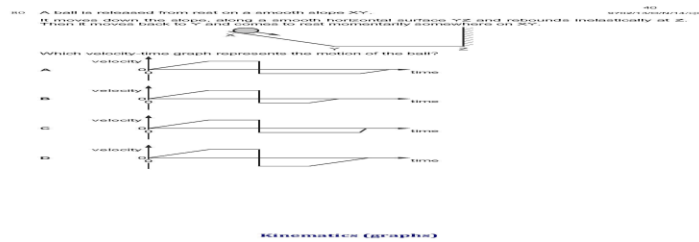
velocity

C



velocity

D



velocity