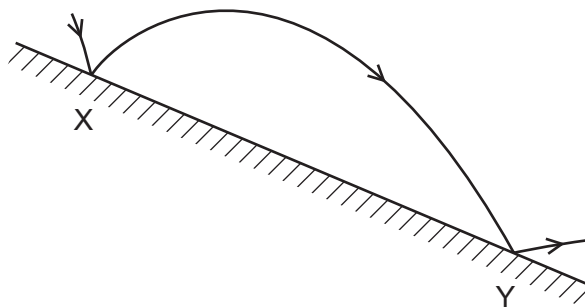
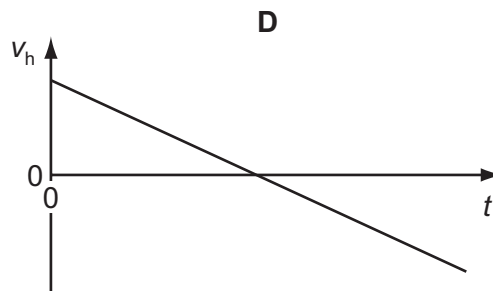
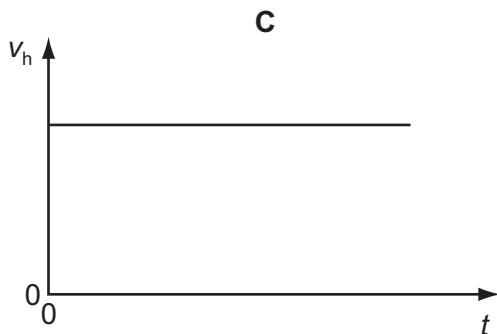
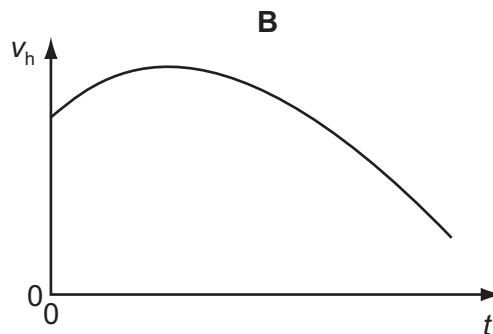
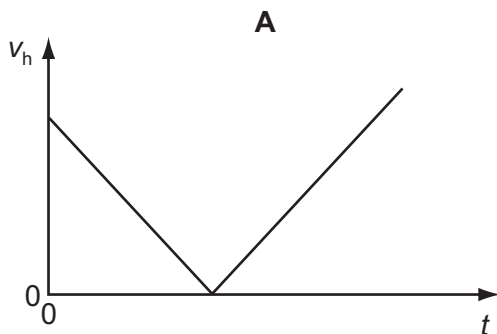


- 10** A football is released above a plane, sloping surface and bounces several times. The diagram shows its path between its bounces at X and at Y. Assume that there is no air resistance.



Which graph correctly shows the variation with time t of the horizontal component of its velocity v_h between X and Y?



- 11** A rocket of mass 20 000 kg sits on a launch pad on the Earth's surface. The rocket motors