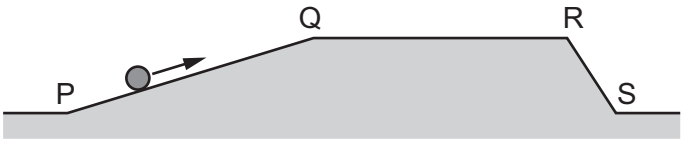
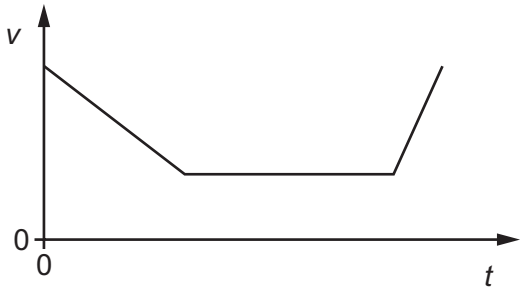
6 A ball is set in motion at P on a frictionless surface. It moves up slope PQ, along the horizontal surface QR and finally descends slope RS.

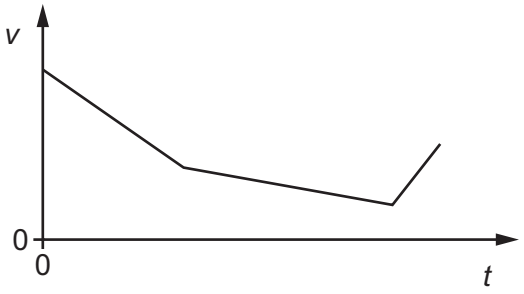


Which graph could represent the variation with time *t* of the ball's speed *v* as the ball moves from P to S?

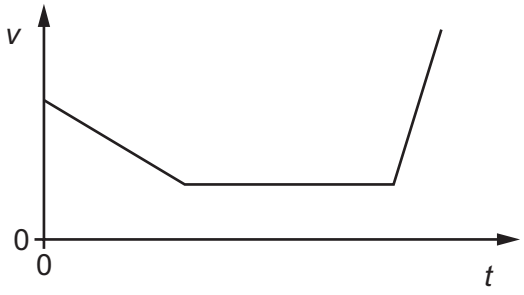
A



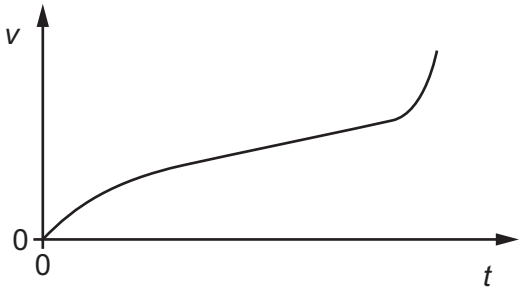
B



C



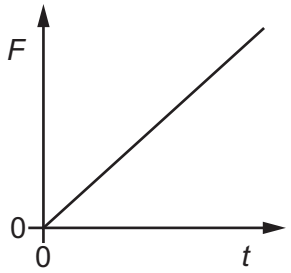
D



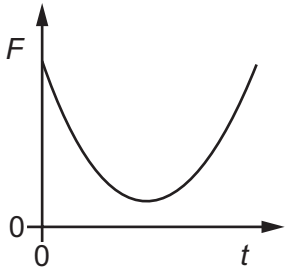
7 A rubber ball is dropped onto a table and bounces back up. The table exerts a force *F* on the ball.

Which graph best shows the variation with time *t* of the force *F* for the short time that the ball is in contact with the table?

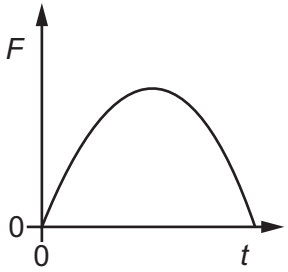
A



B



C



D