

- 10 A car is travelling on a road in hilly terrain, as shown in diagram below. The tops and bottoms of the hill have radius of curvature R .



Assuming that the car is moving with a speed v , at which point of the hill and at what speed is the driver of the car most likely to feel weightless?

- A at the top of a hill when $v > \sqrt{gR}$
- B at the bottom of a hill when $v > \sqrt{gR}$
- C at the top of a hill when $v < \sqrt{gR}$
- D at the bottom of a hill when $v < \sqrt{gR}$