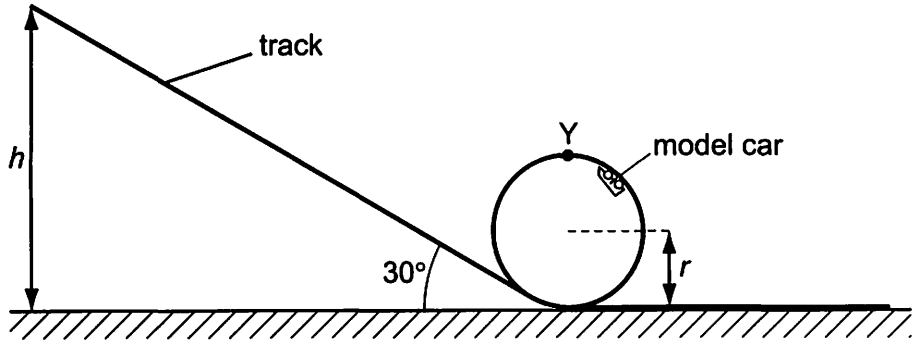
13 A model car is released from rest at a height h on a frictionless track.



For the car to go around the loop of radius r without leaving the track, it must be travelling at a speed of at least $\sqrt{gr}$ at point Y.

What is the minimum possible value of the height h required for the car to remain on the track while going around the loop?

A $2.5r$ **B** $2.75r$ **C** $3.0r$ **D** $4.0r$