

Question 8**(4 marks)**

A cyclist is travelling at 6.0 m s^{-1} over a hump in the road that is part of a circle of radius 4.80 m . Calculate the magnitude of the total reaction force of the ground on the cyclist at the top of the hump. The total mass of the cyclist and bicycle is 72 kg .
(Note: diagram not to scale, ignore friction.)

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