

14 In a high-wire circus act, a man of mass 85 kg is standing at rest at the midpoint of the wire.



The wire on either side of the man is at an angle of 20° to the horizontal.

What is the tension T in the wire?

A 0.44 kN

B 0.89 kN

C 1.2 kN

D 2.4 kN

15 A ball is kicked from a point on a horizontal field with a velocity of 12 m s^{-1} at an angle of 30° to the horizontal.