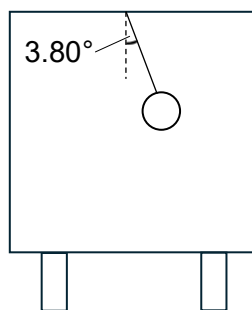6 A train moving at 57.8 km h⁻¹ travels around a circular curve at constant speed. An object hung from a string in the train makes an angle of 3.80° with the vertical. What is the radius of the circular path?

3.80°

centre of circular path

✕

Rear view of train

A   24.6 m

B   34.0 m

C   396 m

D   5130 m