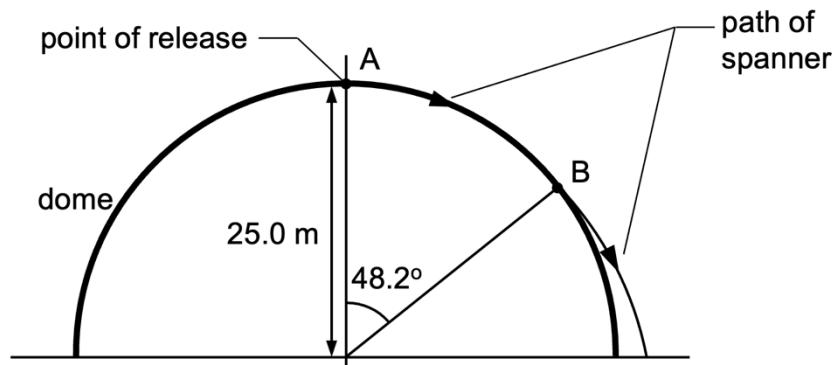


- 9** A workman on the roof of a hemispherical sports dome of radius 25.0 m lets go of a spanner very close to the highest point A as shown.



The surface of the roof is very smooth and the spanner starts to slide from rest down the dome.

The spanner loses contact with the surface at point B.

What is the centripetal acceleration of the spanner at point B?

- A** 4.91 m s^{-2} **B** 6.54 m s^{-2} **C** 7.31 m s^{-2} **D** 9.81 m s^{-2}