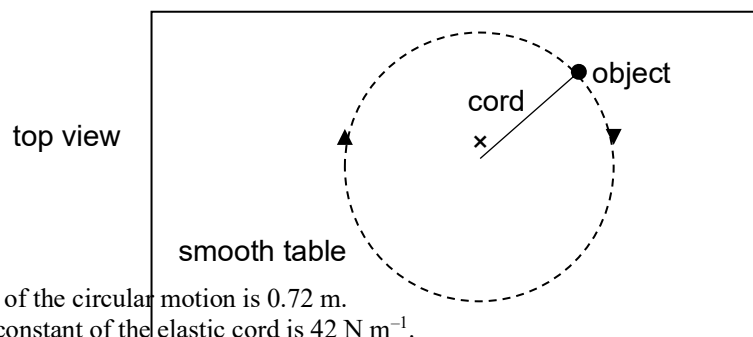


- 8 An object of mass 0.80 kg is attached to an elastic cord and performs a circular motion on a smooth horizontal table with a constant speed of 3.2 m s^{-1} .



The radius of the circular motion is 0.72 m .

The force constant of the elastic cord is 42 N m^{-1} .

What is the unstretched length of the elastic cord?

- A** 0.27 m **B** 0.45 m **C** 0.60 m **D** 0.64 m