

6. An object of mass 200.0 g moves in a circle on a horizontal frictionless surface, attached by a cord 40.0 cm long to a pin set in the surface. If the speed of the object is 6.0 m/s, what is the tension in the cord?

A. 3.0 N

B. 7.2 N

C. 18 N

D. 72 N

E. 90 N

F. Not close to any of the above

Ans. _____