

Physics 12 Review #17

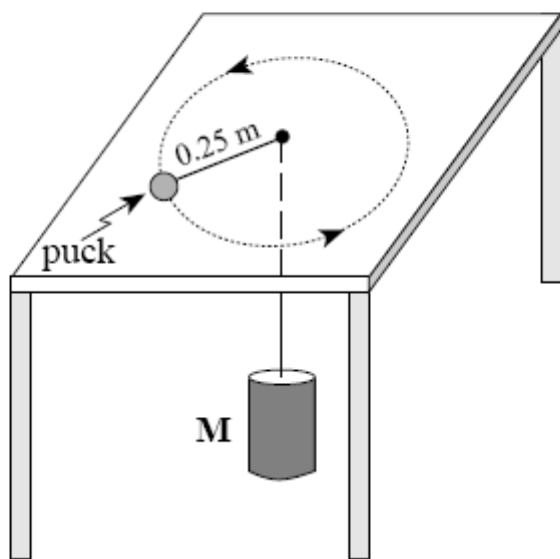
1.

What is the centripetal acceleration of the Moon in its orbit around the Earth?

- A. 0 m/s^2
- B. $2.7 \times 10^{-3} \text{ m/s}^2$
- C. 1.6 m/s^2
- D. 9.8 m/s^2

2.

A 0.055 kg puck is attached to a 0.150 kg mass **M** by a cord that passes through a hole in a frictionless table, as shown. The puck travels in a circular path of radius 0.25 m .



What is the speed of the puck?

- A. 0.61 m/s
- B. 0.95 m/s
- C. 1.6 m/s
- D. 2.6 m/s