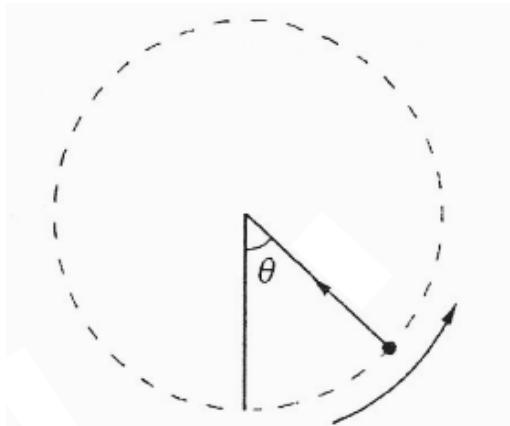


- 9 An object of 3.5 kg is fixed to one end of a light rod which rotates freely in a vertical circle. The length of the rod is 7.7 m.



When θ is 30° , the speed of the object is 25.0 m s^{-1} . Assume that there is no energy loss to the surrounding.

Which of the following describes the force in the rod when the object is at the top of the circular motion?

- A 94 N in compression
- B 94 N in tension
- C 121 N in compression
- D 121 N in tension