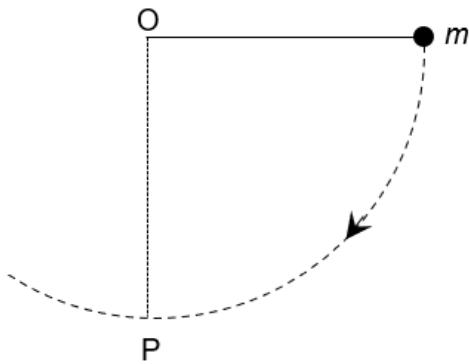


- 10** A small bob of mass  $m$  is suspended from a fixed point O by a light, inextensible cord. The bob is raised until the cord is horizontal and it is then released from rest. It moves in an arc of a circle as shown.



What is the tension in the cord at the lowest point P?

**A** zero

**B**  $mg$

**C**  $2mg$

**D**  $3mg$