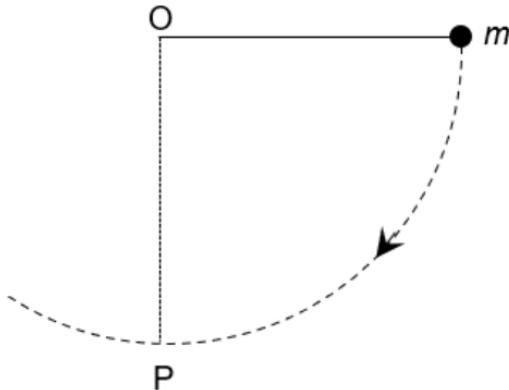


- 8** A small mass m is suspended from a fixed point O by a light, inextensible cord. The mass is raised until the cord is horizontal and it is then released from rest. It moves in an arc of a circle as shown.



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

A zero

B mg

C $2mg$

D $3mg$