

Energy at Perfectly Horizontal Position (bob held at rest)

At the instant that the pendulum is released from a perfectly horizontal position as shown:

a.) $PE = KE = 0$

b.) $PE = mgr$, $KE = mv^2$

c.) $PE = \left(\frac{1}{2}\right)mv^2$, $KE = mgr$

d.) $PE = mgr$, $KE = 0$

e.) $PE = 0$, $KE = \left(\frac{1}{2}\right)mv^2$

