

2 The speed of a wave in deep water depends on its wavelength L and the acceleration of free fall g .

What is a possible equation for the speed v of the wave?

A $v = \sqrt{\left(\frac{gL}{2\pi}\right)}$

B $v = \frac{gL}{4\pi^2}$

C $v = 2\pi\sqrt{\left(\frac{g}{L}\right)}$

D $v = \frac{2\pi g}{L}$