

3 Which formula could be correct for the speed v of ocean waves in terms of the density ρ of sea-water, the acceleration of free fall g , the depth h of the ocean and the wavelength λ ?

A $v = \sqrt{g\lambda}$

B $v = \sqrt{\frac{g}{h}}$

C $v = \sqrt{\rho gh}$

D $v = \sqrt{\frac{g}{\rho}}$