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When solving numerical problems in

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that the product of Planck's constant

$h = 6.6261 \times 10^{-34} \text{ J s}$ (1) and the speed

of light $c = 2.9979 \times 10^8 \text{ m s}^{-1}$ (2) is $hc =$

$1239.8 \text{ eV nm} = 1239.8 \text{ keV pm} =$

1239.8 MeV fm (3) where $\text{eV} = 1.6022$

$\times 10^{-19} \text{ J}$ (4) Also, $\hbar c = 197.32 \text{ eV nm} =$

$197.32 \text{ keV pm} = 197.32 \text{ MeV fm}$ (5)

where $\hbar = h/2\pi$. Wave Function for a

Free Particle Problem 5.3, page 224 A

free electron has wave function

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