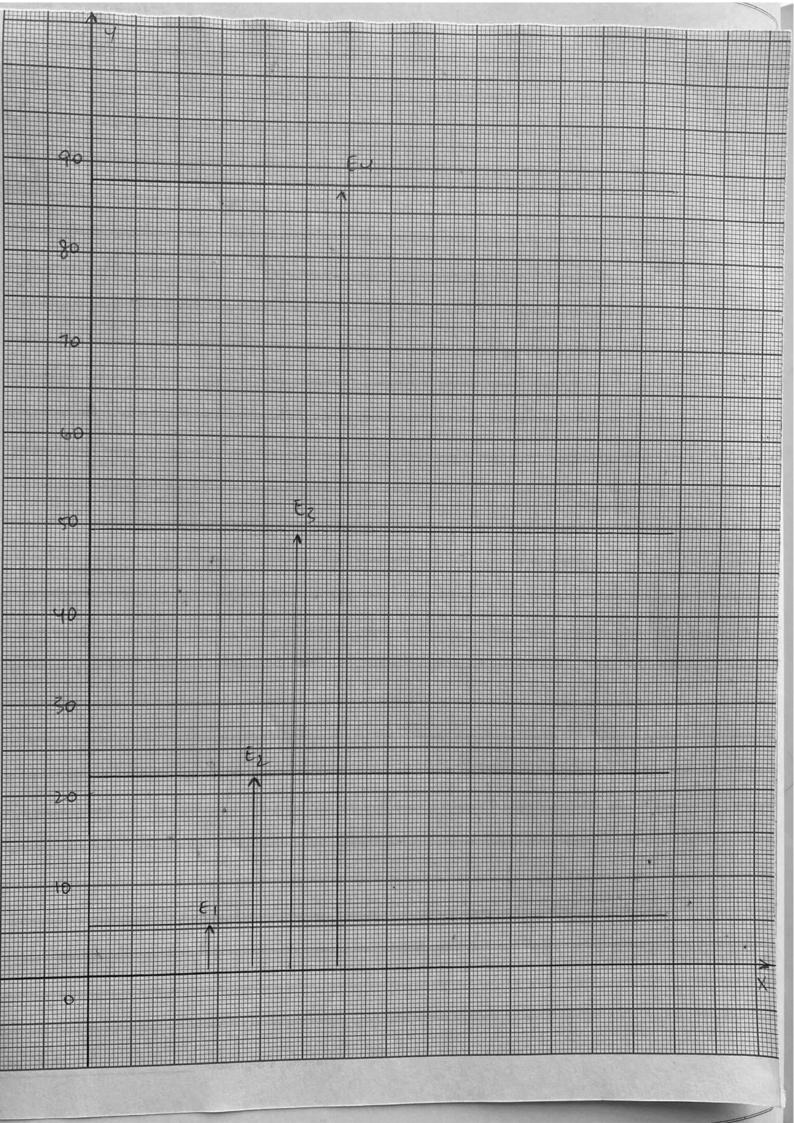


The Sin NAX

 $\frac{\epsilon_{N} = N^{2} h^{2}}{\ell m L^{2}}$

where n=1, 2, 3...



Date	

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olservations:

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1. Calculated the magnitude of energy values for ground state and first 3 excited states for particle contined in one dimensional space of 10 nm.

calwlations:

 $En = n^2 h^2$ $8mL^2$

Taking m=1, L = 10 nm, h= 6.626 × 10-34)5

En = n2. 5.48 × 10-50)

E1 = 5.488 x10-50)

E2 = 21.952 x 10-50)

Ez = 49.392 x10-50 J

Eu = 87.808 x 10-50)

Teacher's Signature _