

## Problems with Bohr's theory

- ① Nucleus answer ... not an answer
- ② Quantum leaping ... not physically possible
- ③ Math only works for hydrogen

## What we learned from AE, LdB and WH

- $e^-$  = waves or particles
- can't know exactly when something is  
+ how its moving

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## Schrodinger's Wave Equation

$E\Psi = H\Psi$        $E(\Psi) = H(\Psi)$   
 ↑      ↙      ↘  
 neg      psi = wave function      Hamiltonian

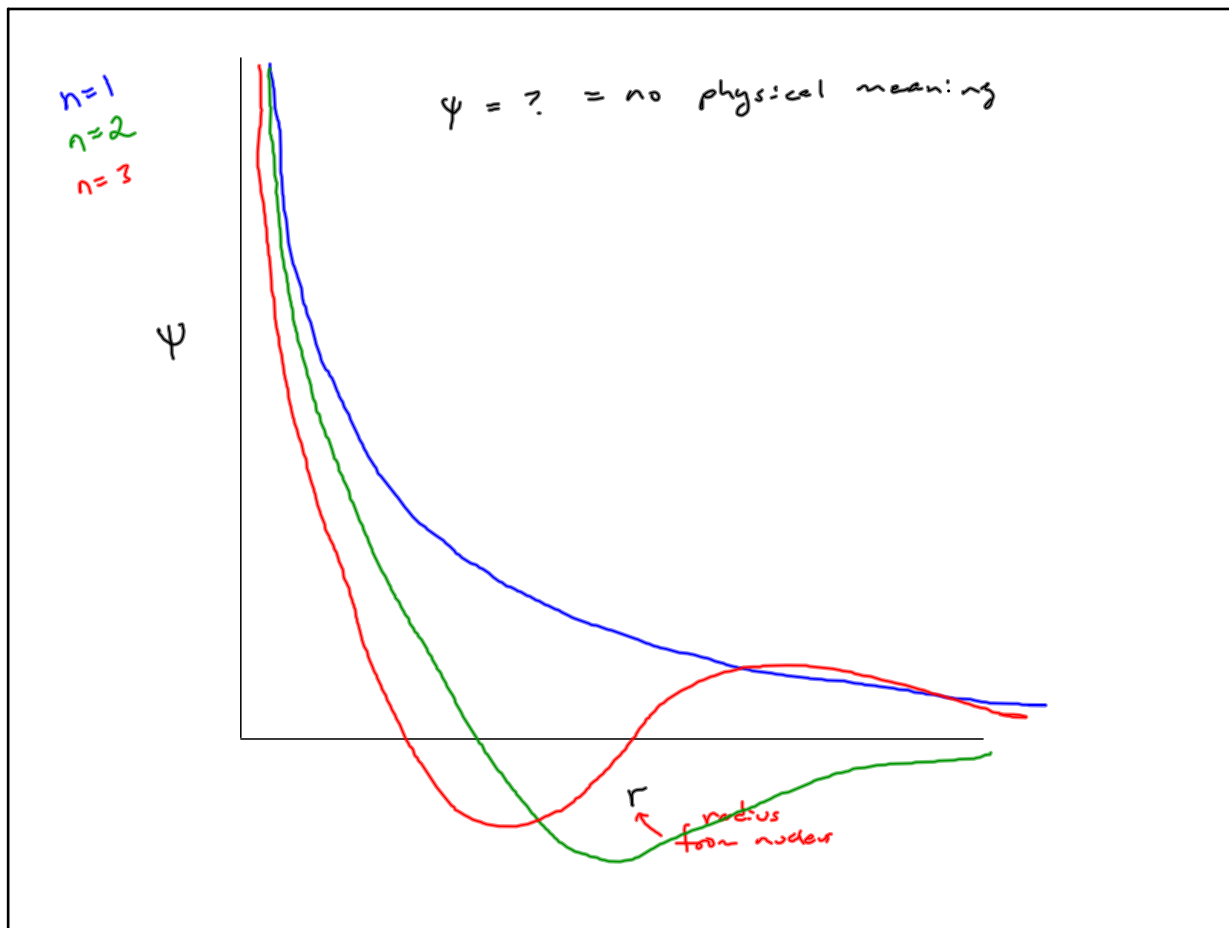
$$E\Psi = -\frac{h^2}{2m} \frac{d^2\Psi}{dx^2}$$

$$y = mx + b$$

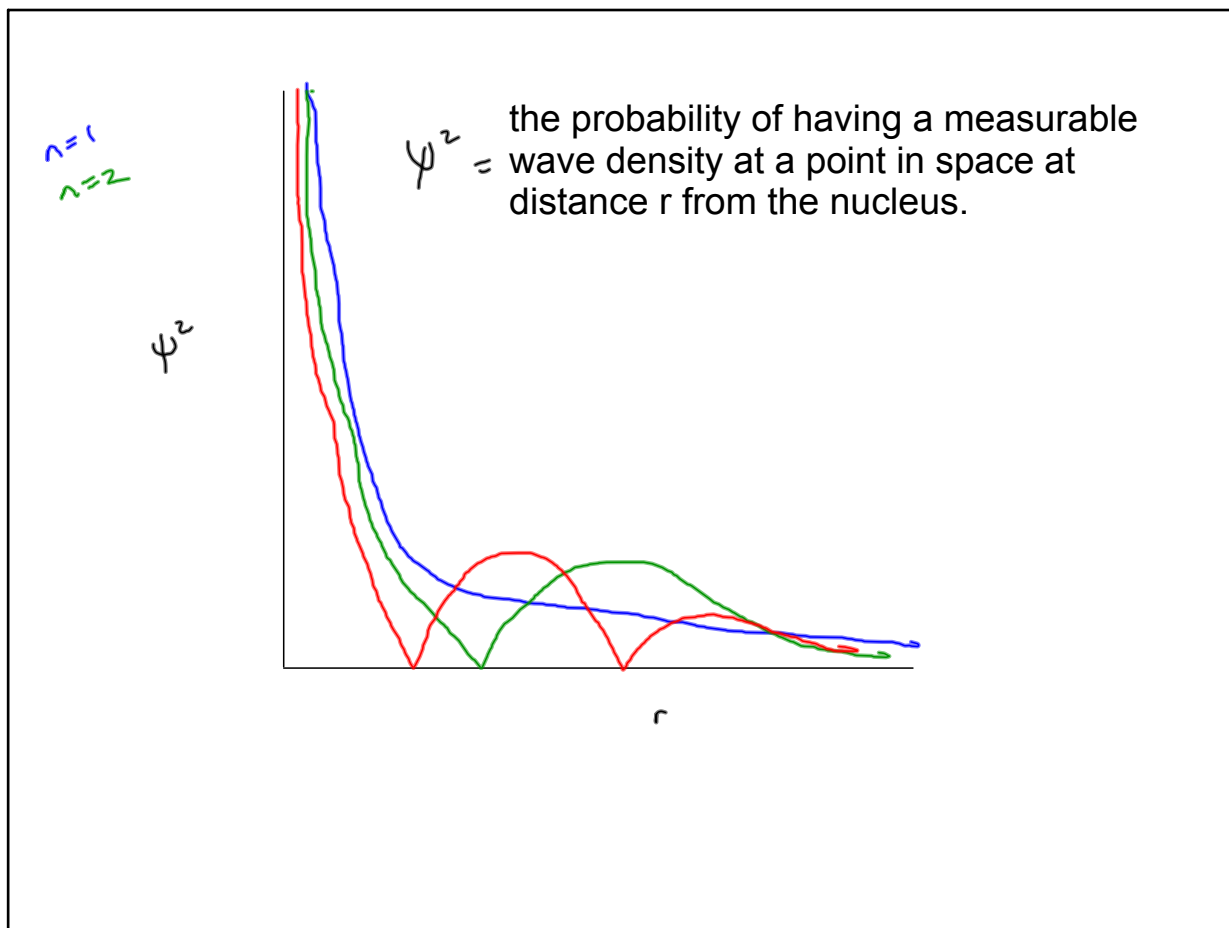
→ answers = graphs  
 (depend on variable)  
 ↓  
probab. l. ty

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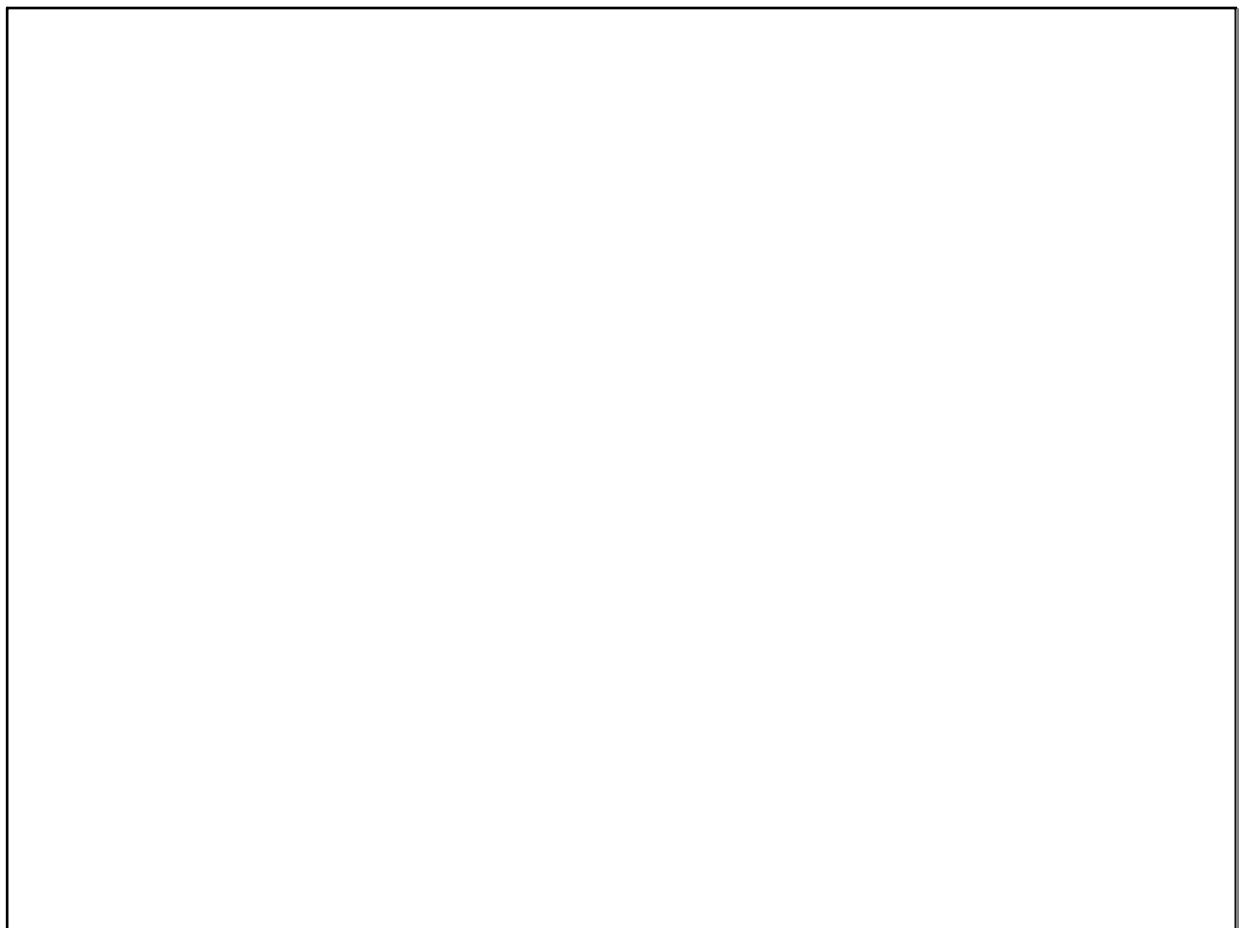
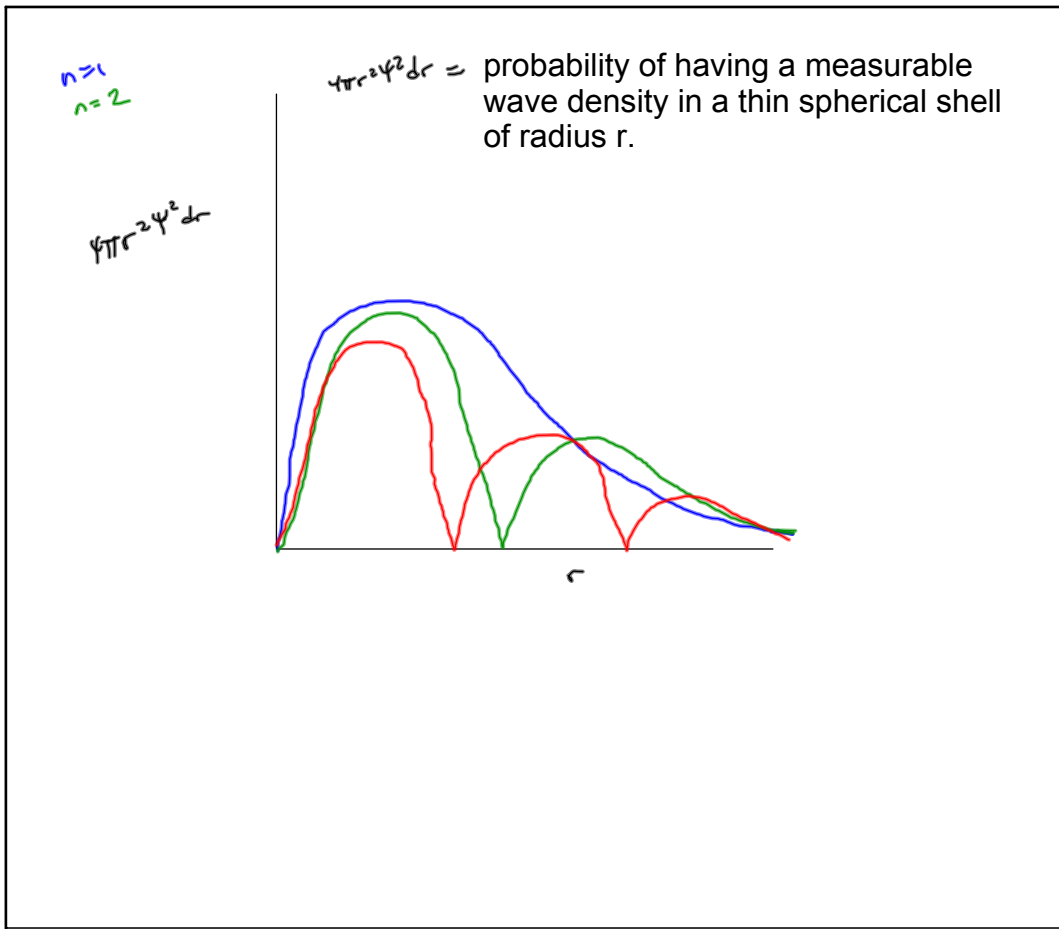




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