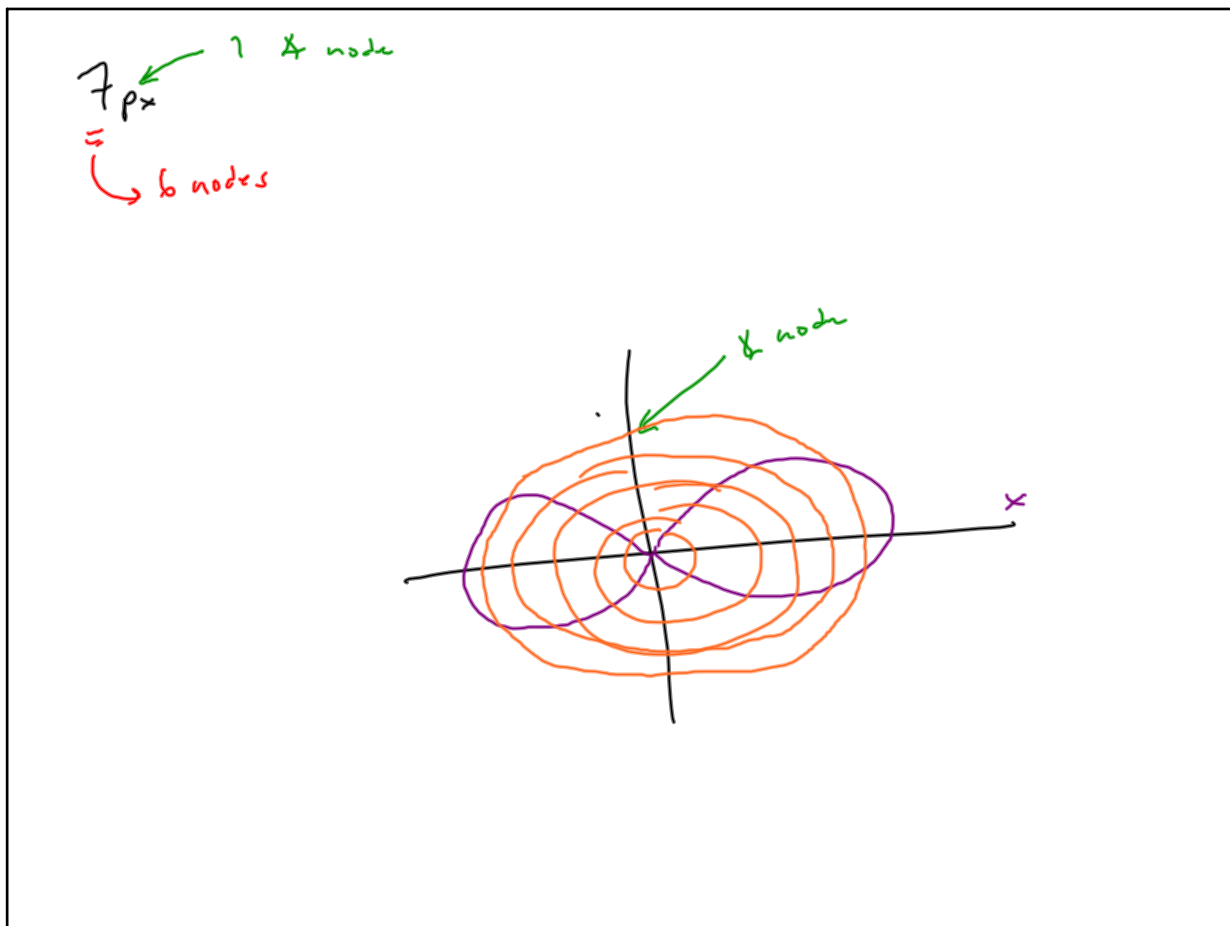


$n=4$ $l = 0, 1, 2, 3$
 3 nodes
 4th principal level
 16 orbitals
 4 types of orbitals (sub shells)

n
 $l \rightarrow 0 \dots n-1$
 $m \rightarrow -l \dots 0 \dots l$

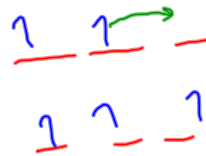
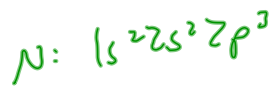
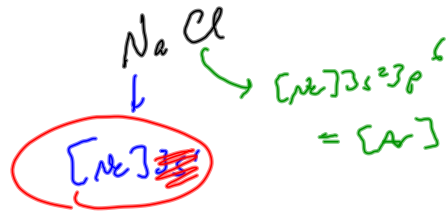
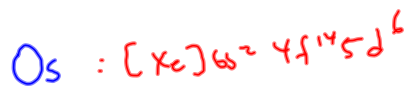
Oct 26-8:42 AM



Oct 26-8:51 AM

$n=5$ $l < 3$
 $l = 0, 1, 2$

Oct 26-8:53 AM

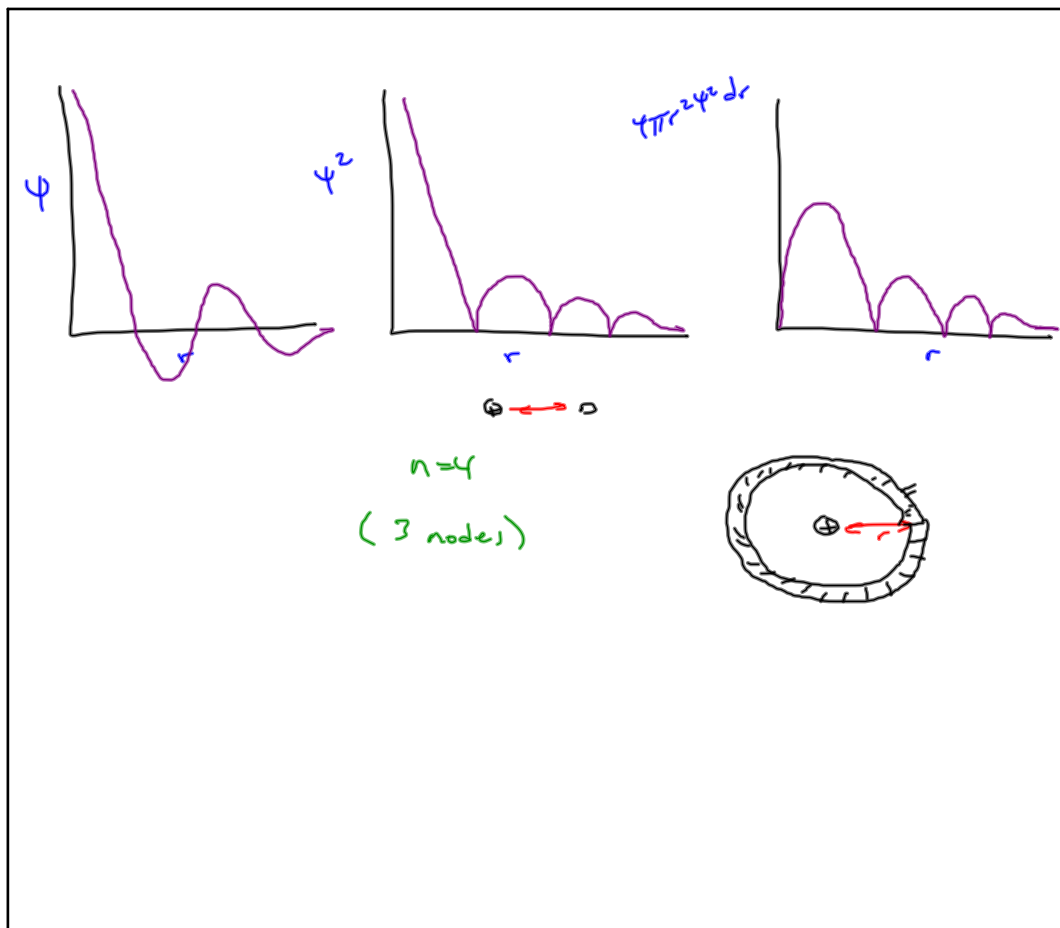


Oct 26-8:54 AM

$$\lambda = \frac{h}{p}$$

$$\Delta x \cdot \Delta p \geq \frac{h}{2\pi}$$

Oct 26-9:07 AM



Oct 26-9:19 AM