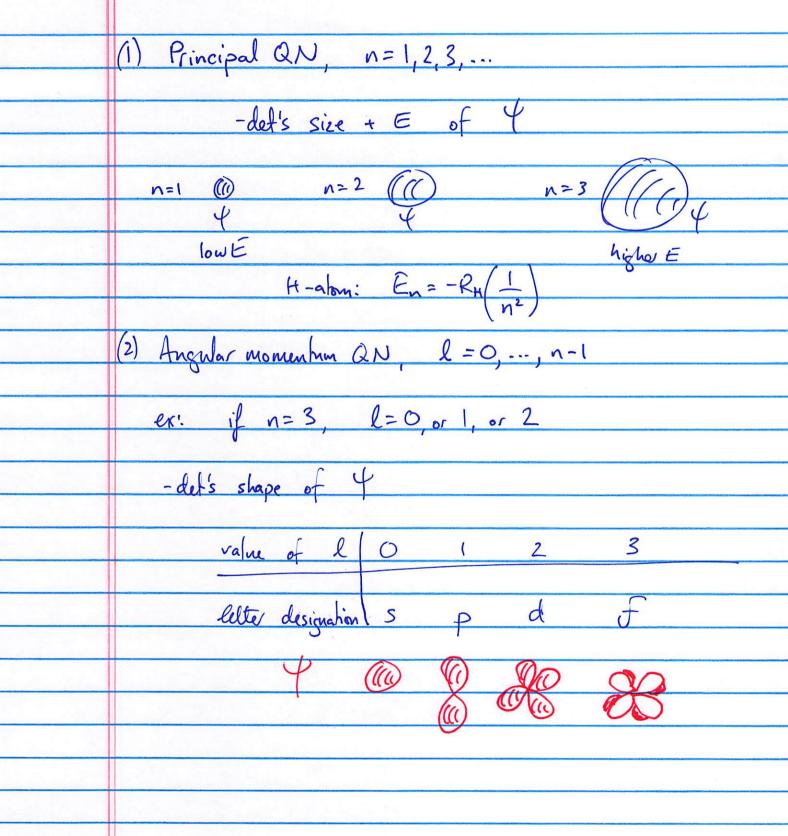
11/9/2018	
·	Exam 3 ~ next Thu!
	Plut of ch 5
	= All of ch 6
	D Ch. 7, up until WED
	-today: all material >> exam 4
	Mastering Chemistry: this week's homework will be due on WED @ Spm!
	due on WED @ SPM!
	Schrödiger ea (SE)
	$-\frac{\pi^2}{2m}\nabla^2\Psi + V\Psi = E\Psi$
	Cosolve for Y, E
	<b>↑</b>
	orbital  Y 2 x prob.
	orbital
	Y 2 x prob.
	4, E depend on 3 quantum numbers (QN)
	4, E depend on 3 quantum numbers (QN) + also a 4th QN (spin) for e.



Va	lue	Of
<i>l</i> =	0	

## Letter Designation

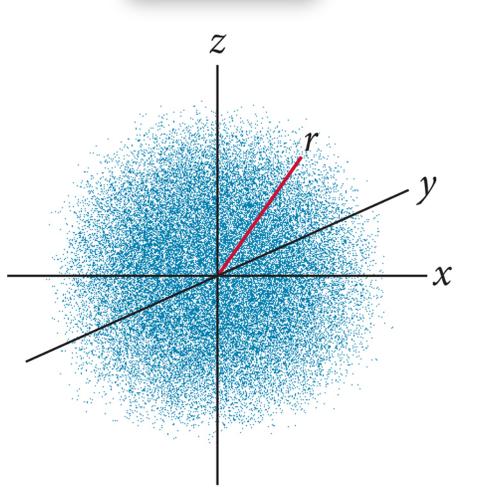
l = 1

1=3

f

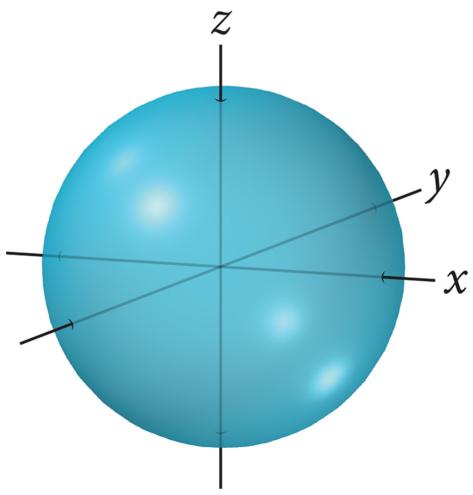
I=2

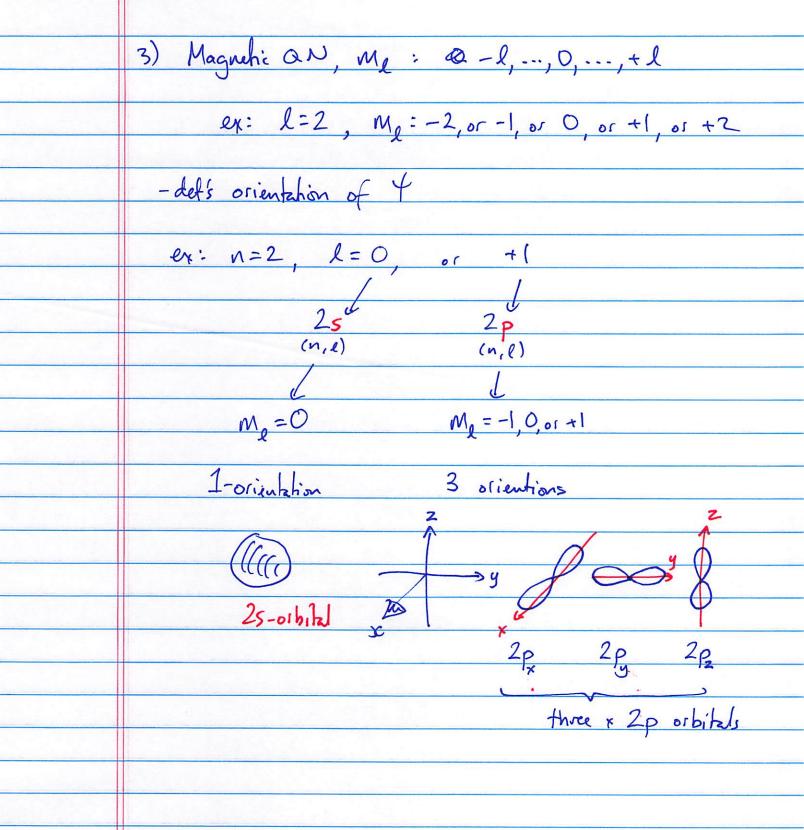
1*s* orbital

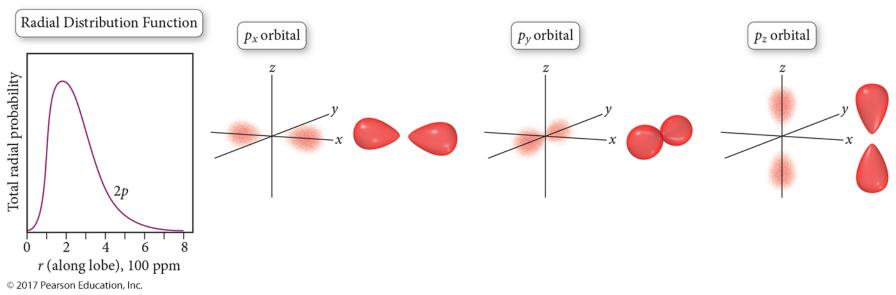


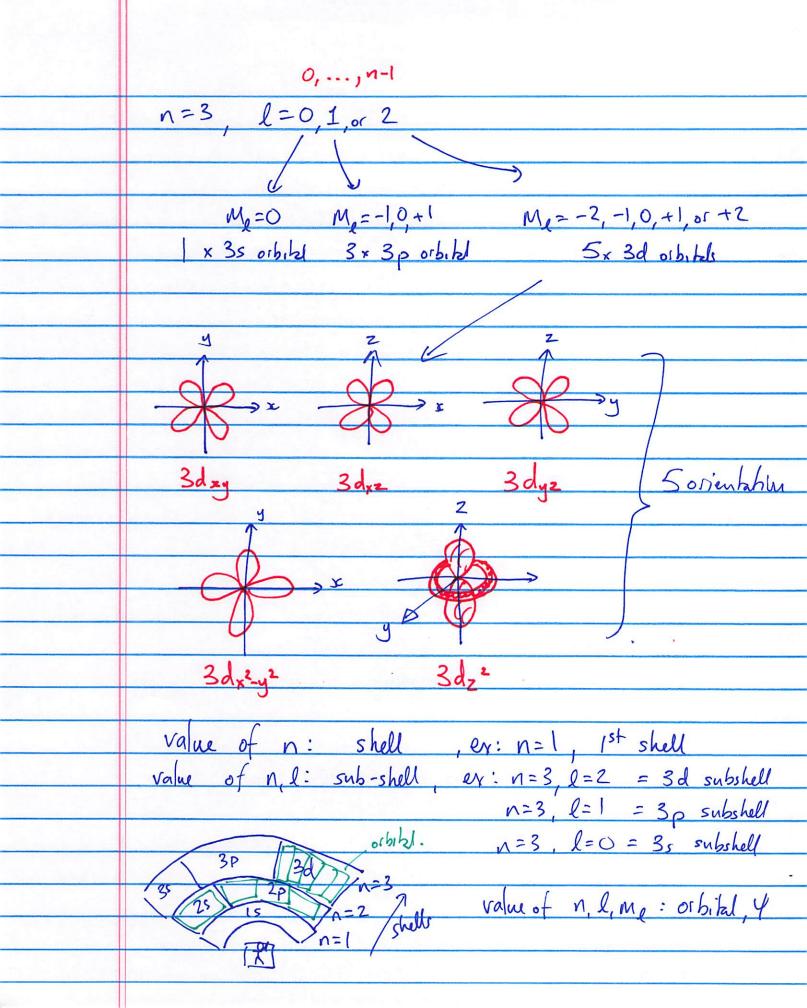
Density of dots proportional to probability density  $(\psi^2)$ .

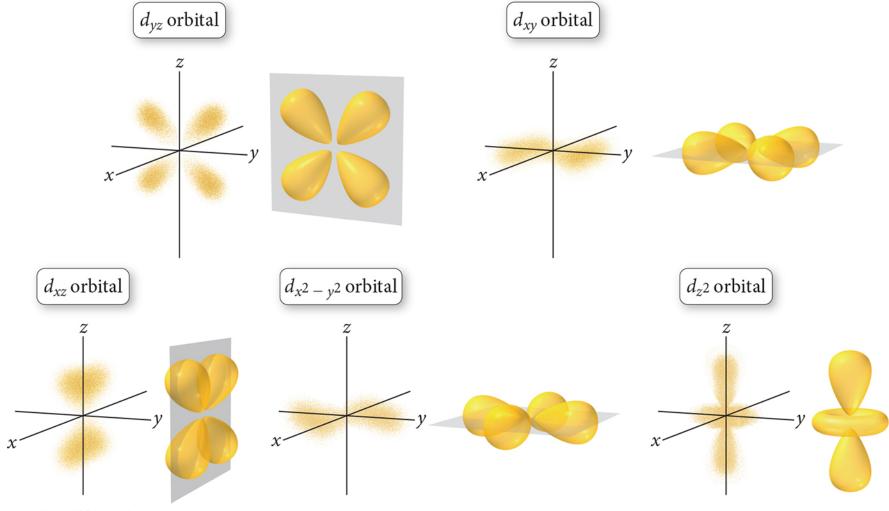
## 1s orbital surface

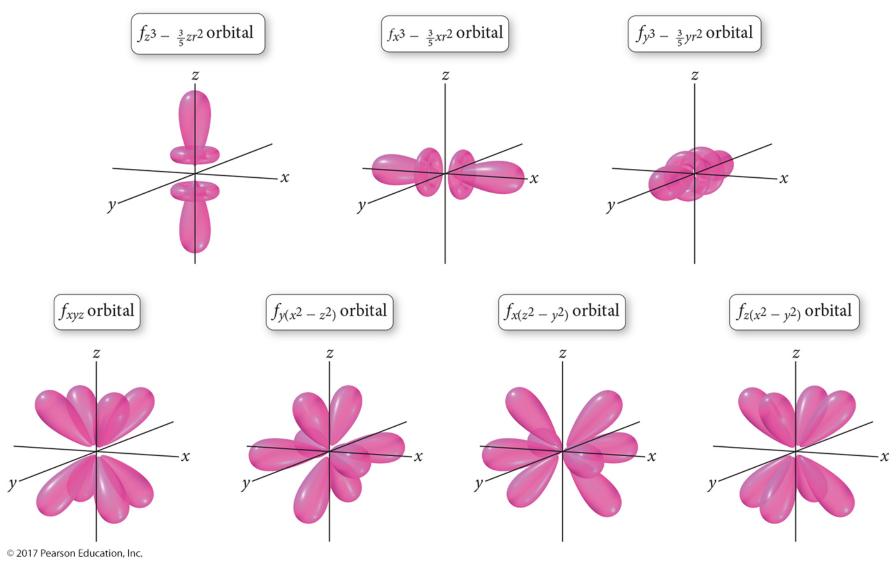


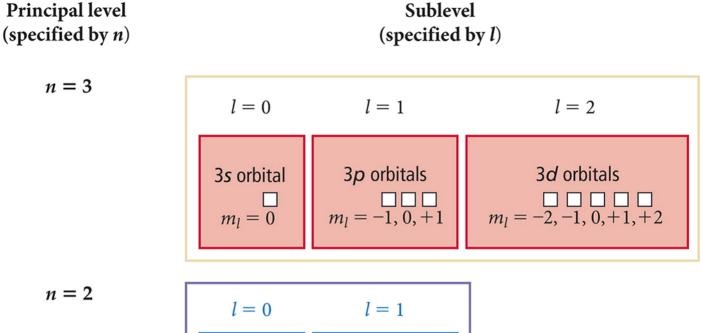


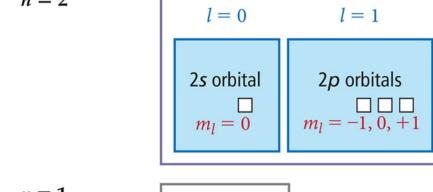












n = 1 l = 0 l = 0  $m_l = 0$   $m_l = 0$ 

