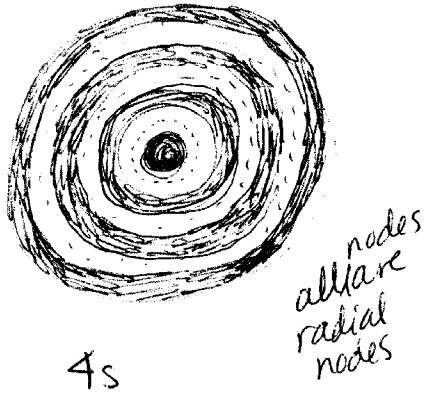
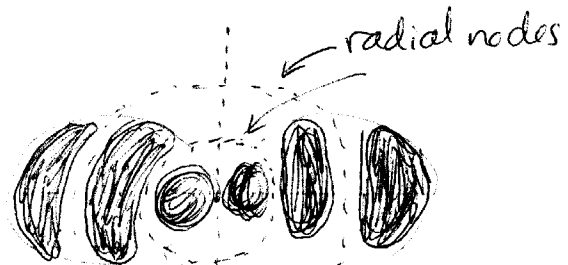


Answers-Ch.6 additional problems

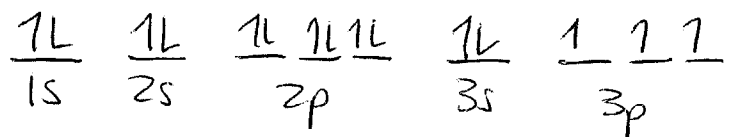
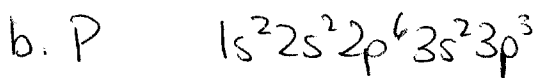
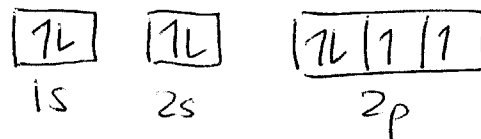
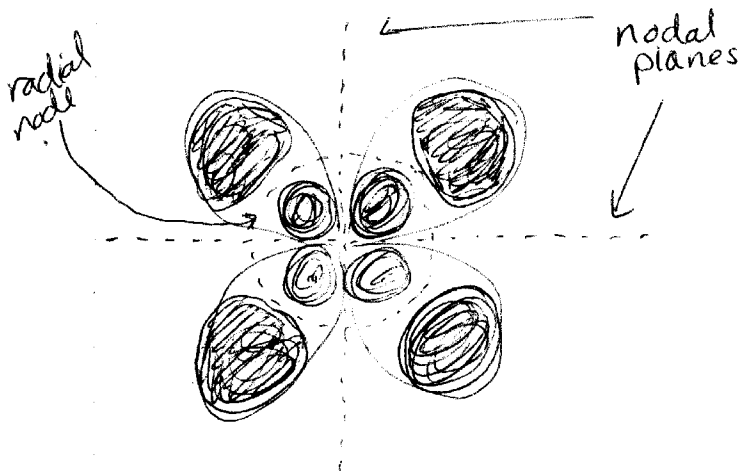
1. 4s  $n-l-1$  radial nodes,  $l$  nodal planes  
 $n=4, l=0$   $n-l-1 = 4-0-1 = 3$  radial nodes  
 0 nodal planes

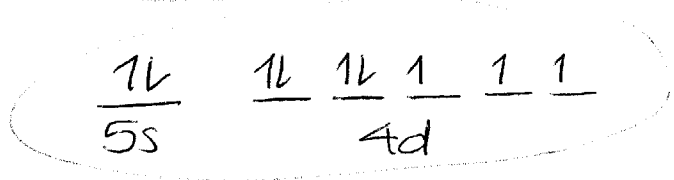
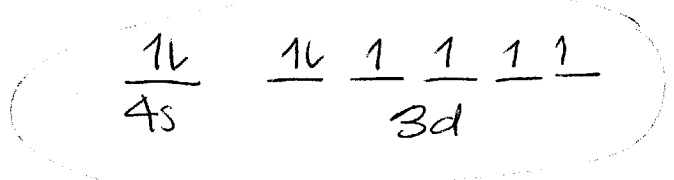
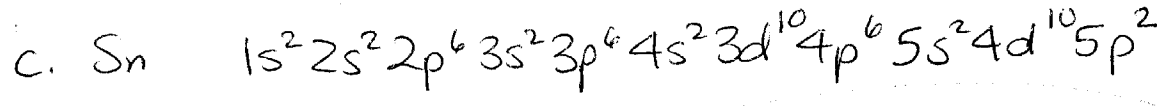
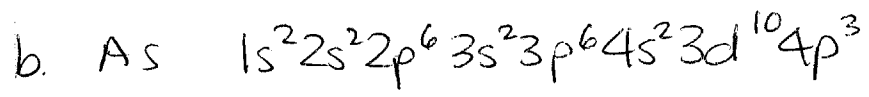
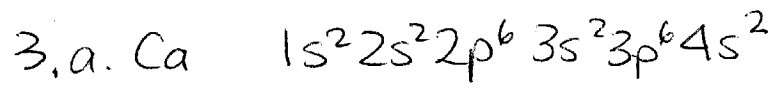


- 4p:  $n=4, l=1$   
 $n-l-1 = 4-1-1 = 2$  radial nodes  
 $l=1$  1 nodal plane.



- 4d  $n=4, l=2$   
 $n-l-1 = 4-2-1 = 1$  radial node  
 $l=2$  2 nodal planes





c. Mo exception - similar to Cr.

