

Electron Configuration

ELECTRON DOT

→ Valence  $e^-$   
outermost  
P.E.L

\* **STABLE** \*

→ Same in chem.  
Group 18  
Noble Gases.

X

Oct 19-8:29 AM

State  $\approx$  Neutral element

↙ Same # $e^-$  as a noble gas (Group 18)

#p = # $e^-$

① 8 Valence  $e^-$  (stable octet)

② Full energy level ( $2n^2$ )

2-8-18-32-50-72-98

Oct 19-9:06 AM

e-dot → represents valence e<sup>-</sup>

↑↓  
SS

PP  
P<sub>3</sub>

PP  
P<sub>3</sub>

element

PP  
P<sub>3</sub>

S<sup>2</sup> P<sup>6</sup>  
main group  
"on time"

d<sup>10</sup> f<sup>14</sup>  
↑  
2 per. late

period late

S ↑↓  
s'

P ↑↓ ↑↓ ↑↓  
P<sub>1</sub> P<sub>2</sub> P<sub>3</sub>

Oct 19-9:13 AM

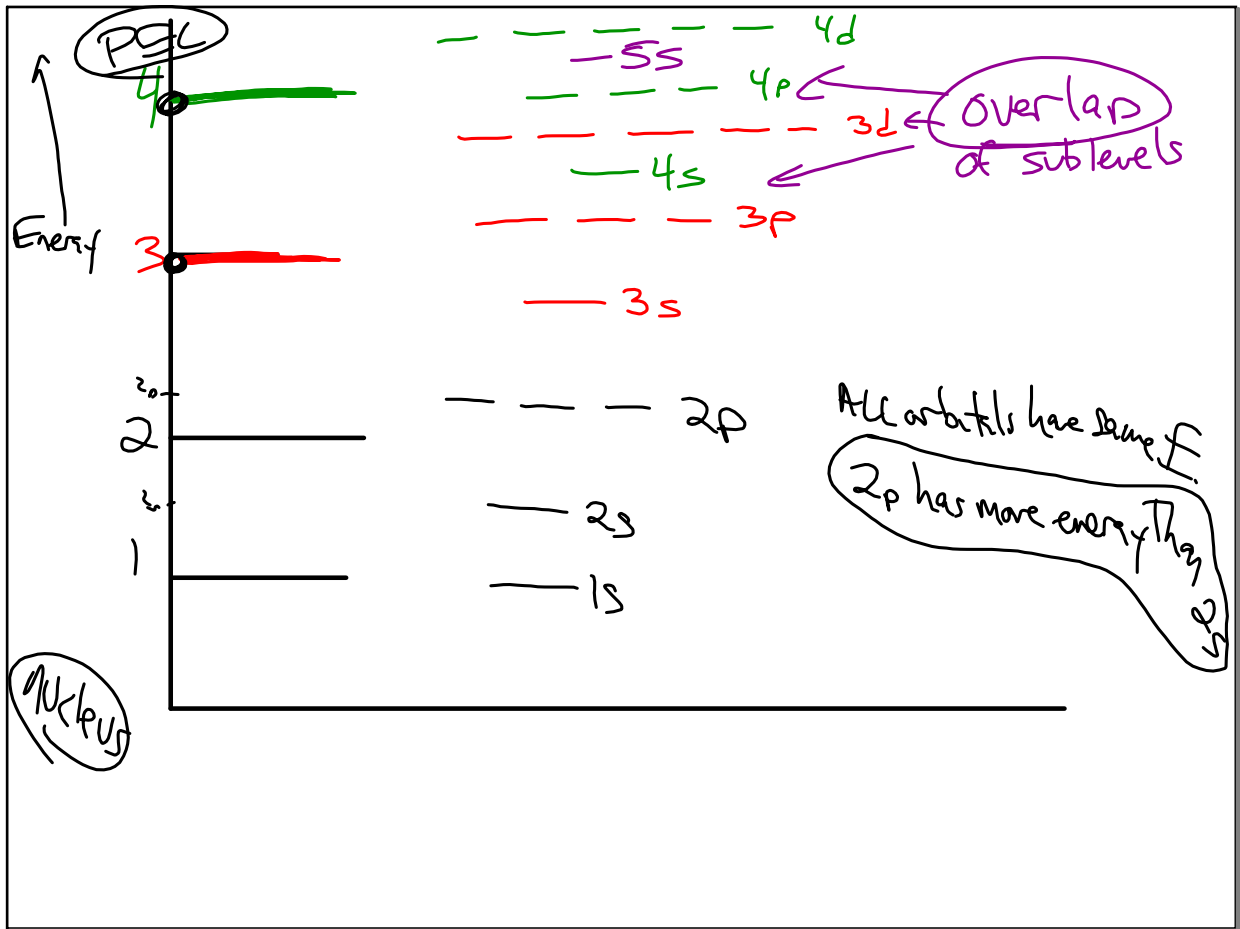
Ca

2ule-  
2-8-8-2

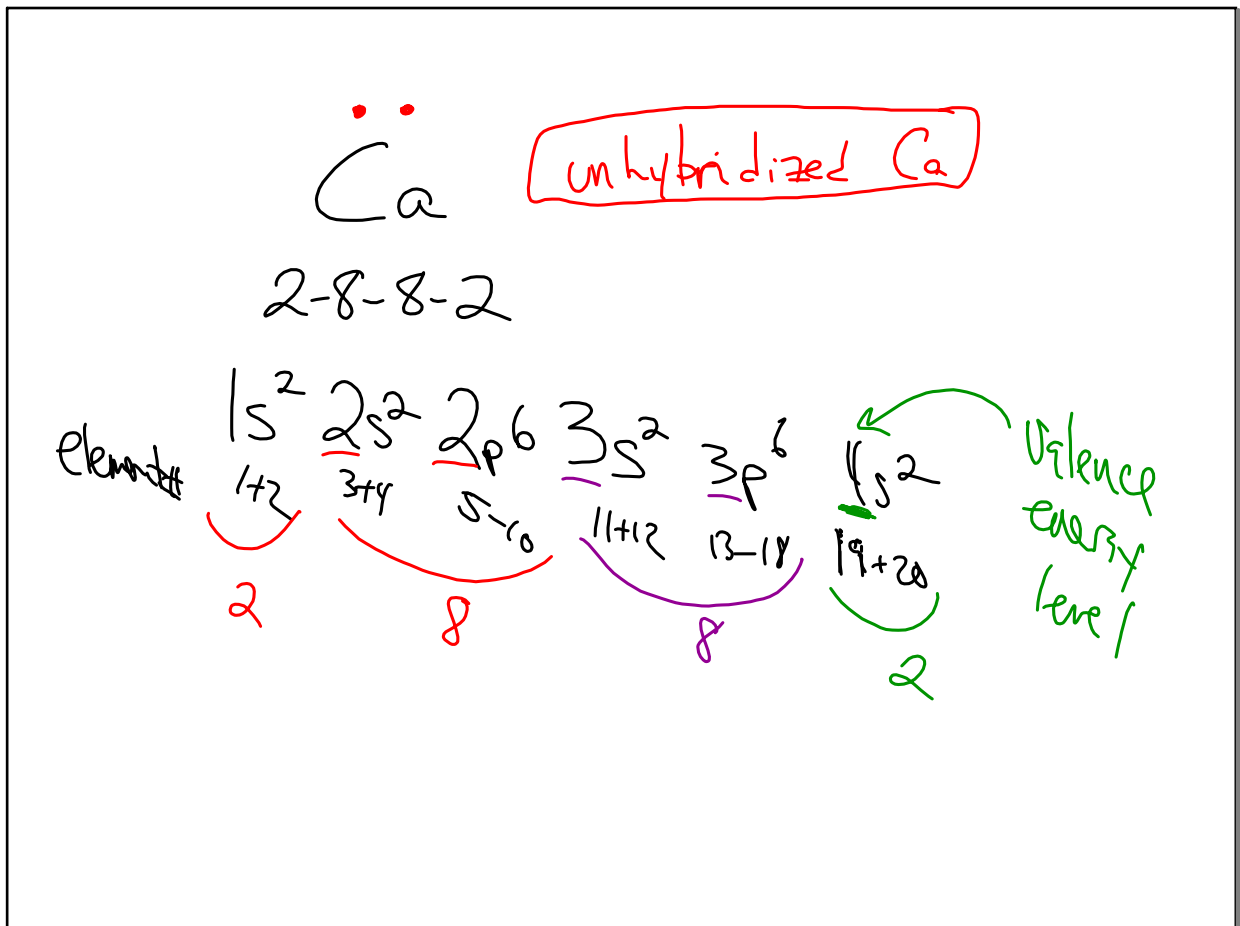
Diagonal Rule

1s  
2s 2p  
3s 3p 3d  
4s 4p 4d 4f  
5s 5p 5d 5f 5g  
6s 6p 6d 6f 6g 6h  
7s 7p 7d 7f 7g 7h

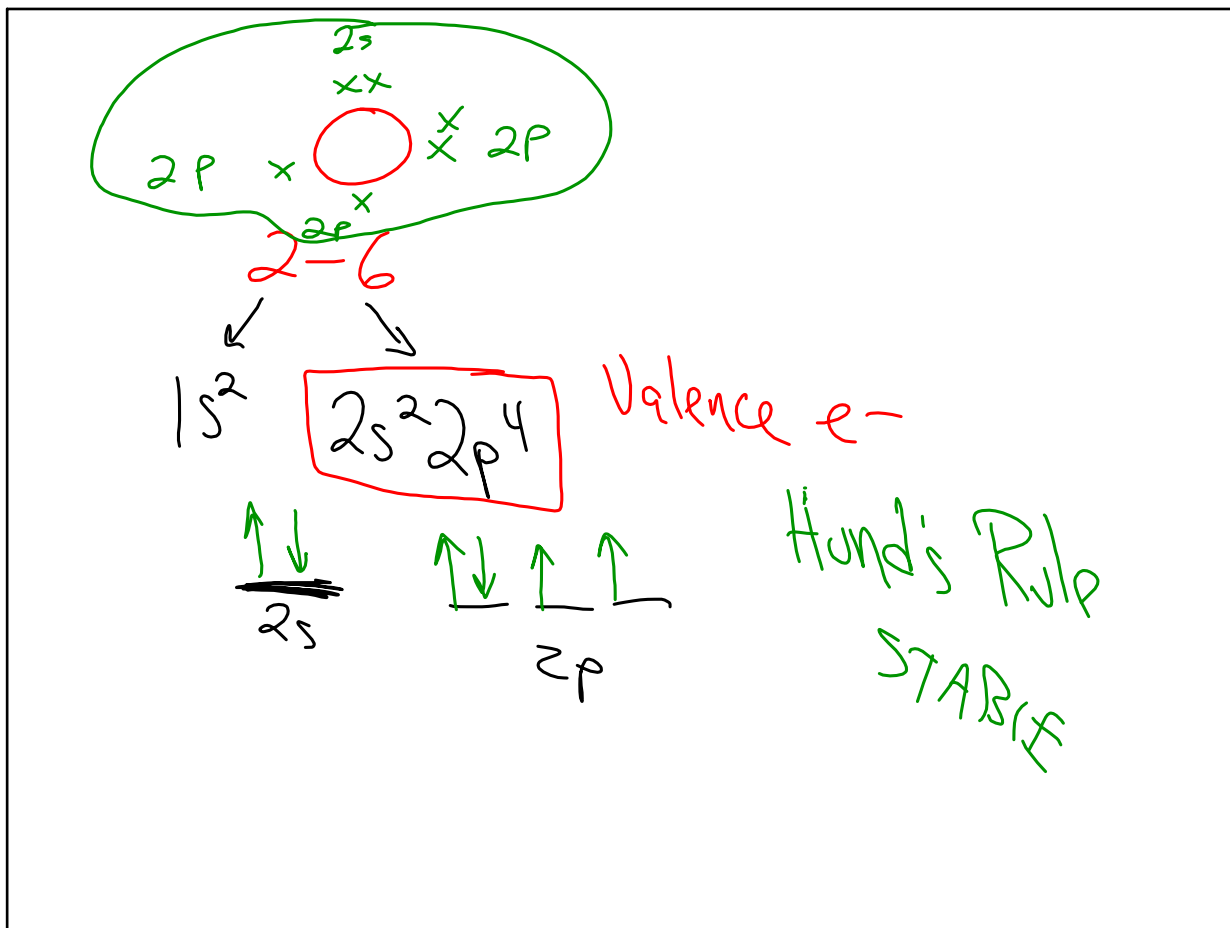
Oct 19-9:17 AM



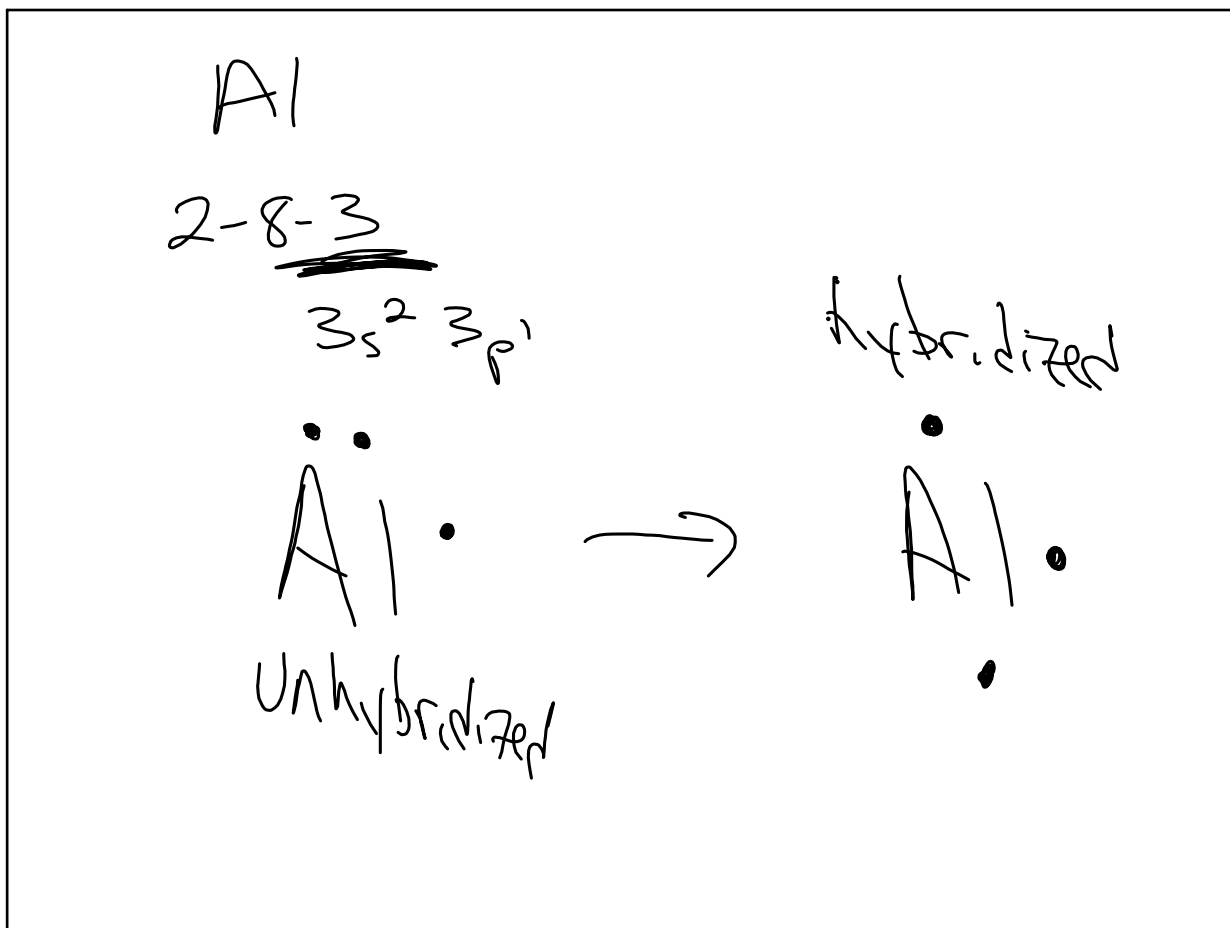
Oct 19-9:36 AM



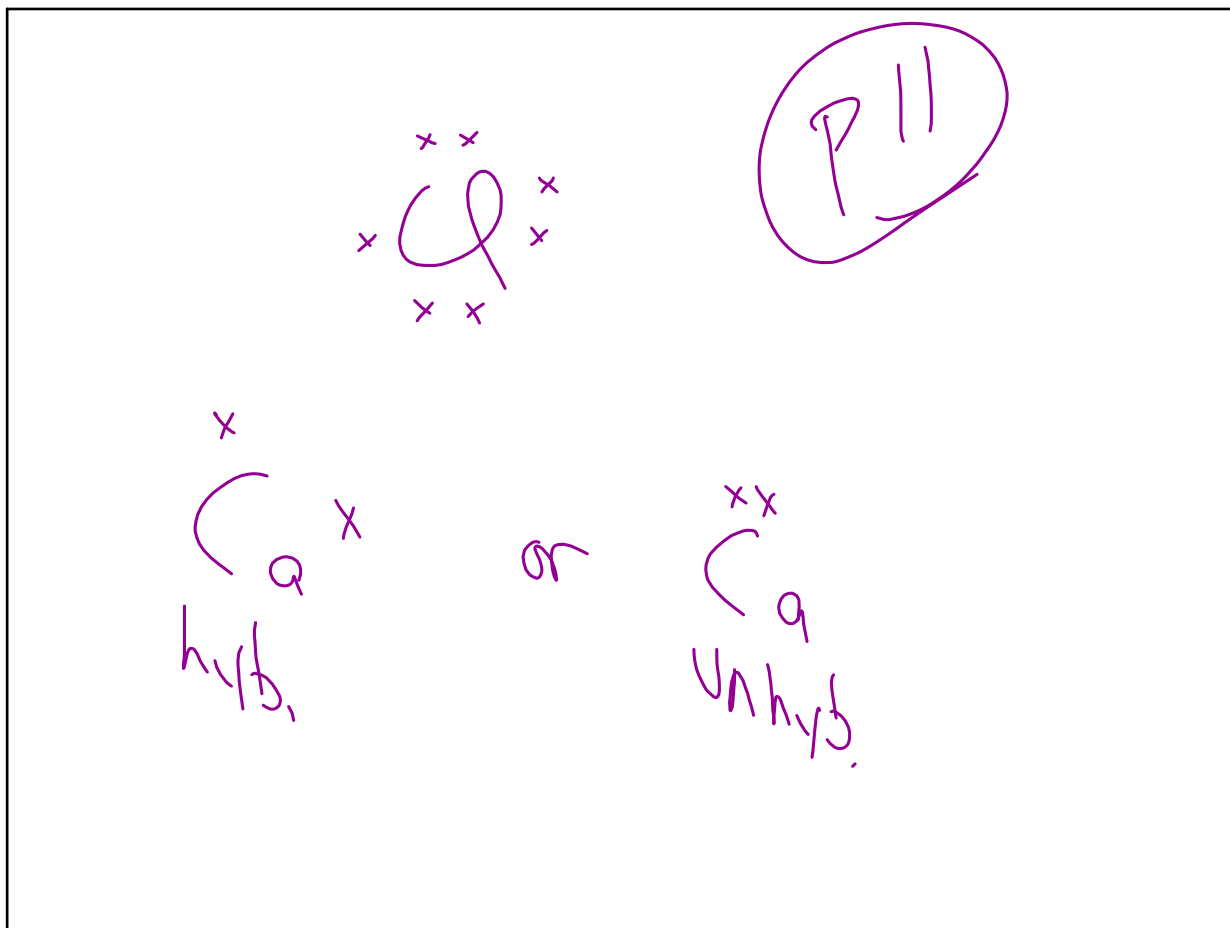
Oct 19-9:47 AM



Oct 19-9:52 AM



Oct 19-10:00 AM



Oct 19-10:02 AM