

① $E = hf$
 $c = f\lambda$

$\frac{E}{1} = \frac{hc}{\lambda}$

② $E = R_H \left(\frac{1}{n_1^2} - \frac{1}{n_2^2} \right) = hf = 4.0875 \times 10^{-19} \text{ J}$

$f = \frac{E}{h}$

$f = 6.13 \times 10^{14} \text{ Hz}$

$\frac{1}{\lambda} = \frac{f}{c} = \frac{h}{m\lambda v}$

Nov 1-7:57 AM

$\frac{1}{\lambda} = \frac{h}{m\lambda v}$

$\frac{v}{\lambda} = \frac{h}{m\lambda^2}$

Nov 1-8:19 AM

n	SIZE	PEL	
l	SHAPE	orbital	
m	Orientation in space	Sublevel	
s	Spin		

↑ ↓

Nov 1-8:23 AM

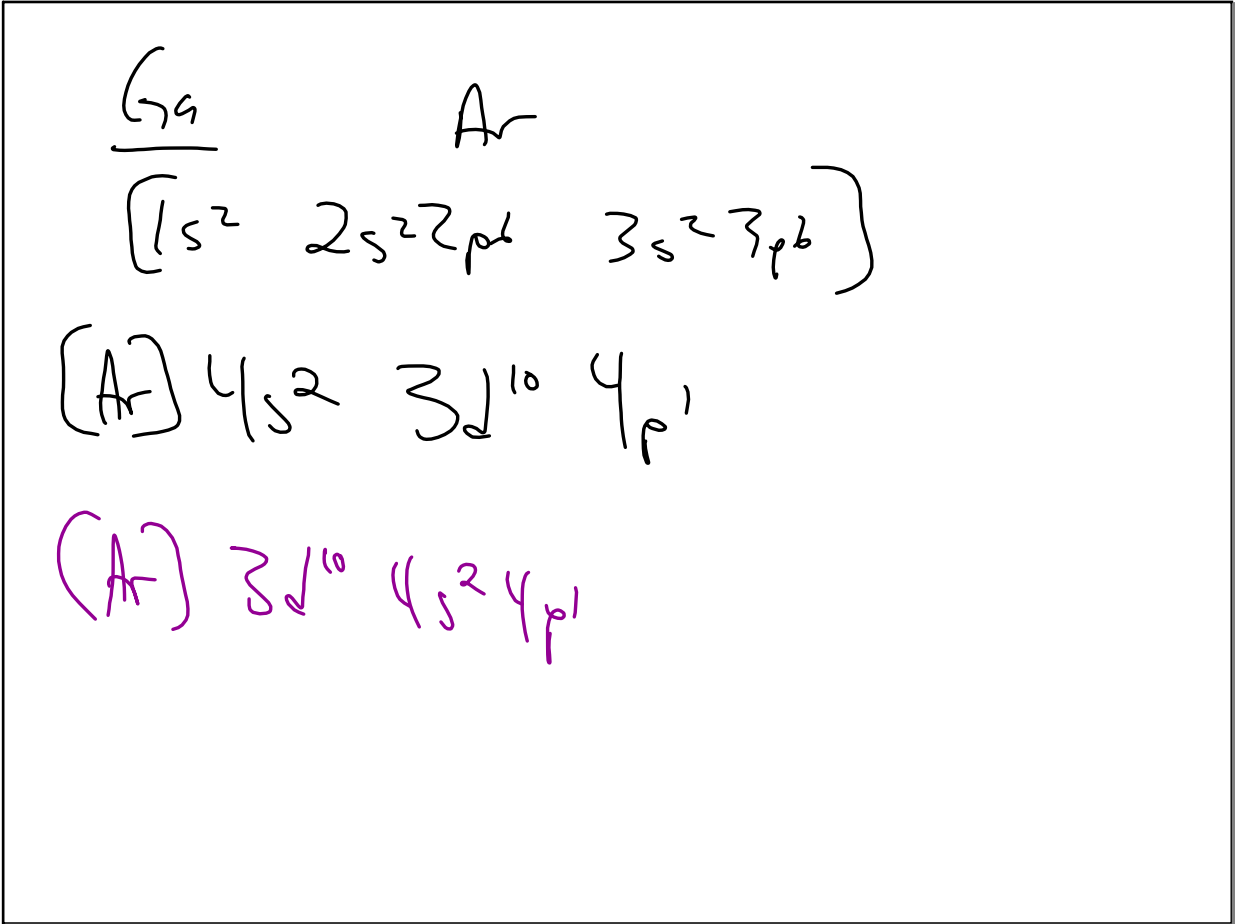
☀️

I 2 2 4

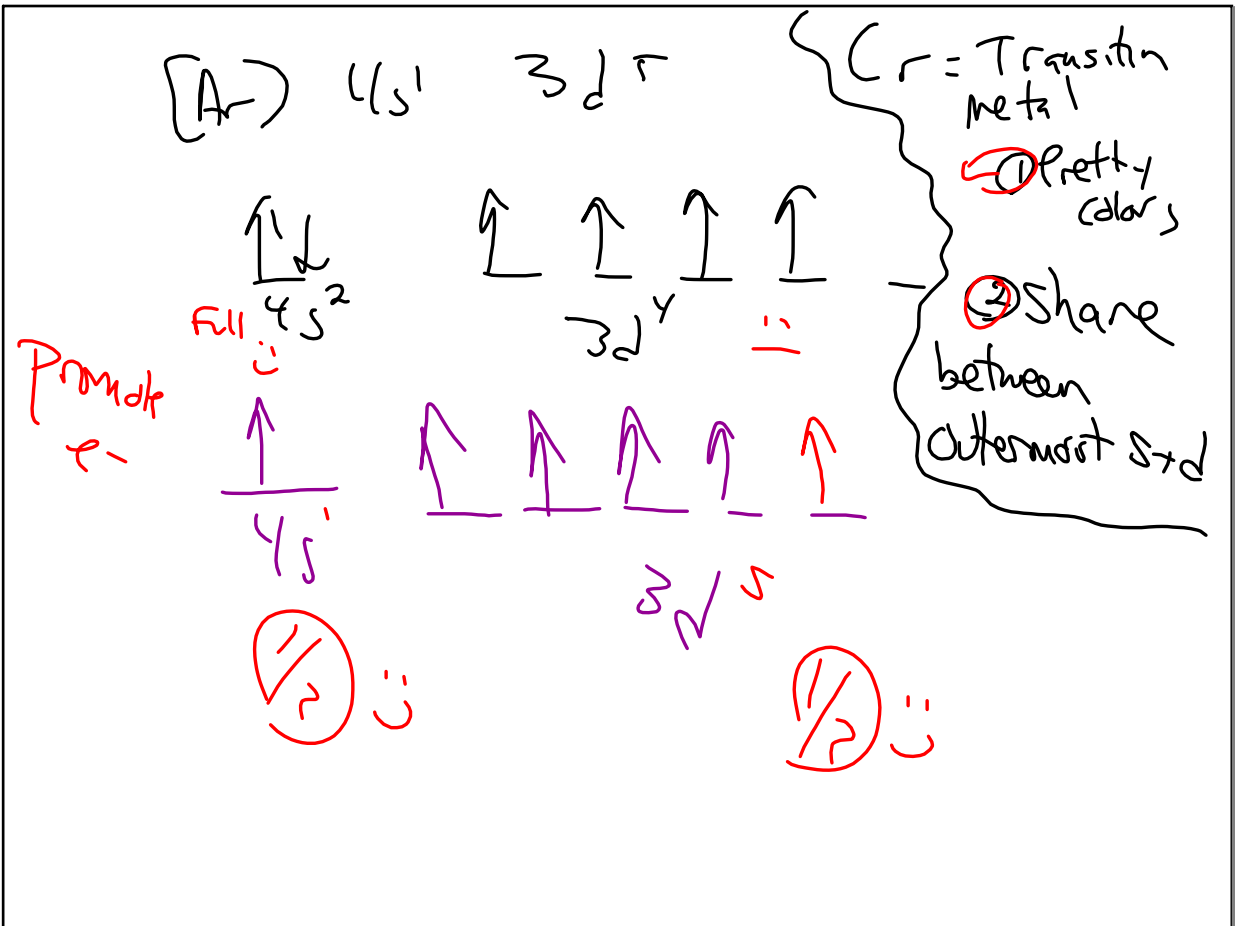
$\frac{\uparrow\downarrow}{1s}$	$\frac{\uparrow\downarrow}{2s}$	— — — $2p$	$1s$
$\frac{\uparrow\downarrow}{1s}$	$\frac{\uparrow}{2s}$	— — — $2p$	$1s$
$\frac{\uparrow\downarrow}{1s}$	—	\uparrow — —	$1s$

Exc. $\frac{1}{2}$

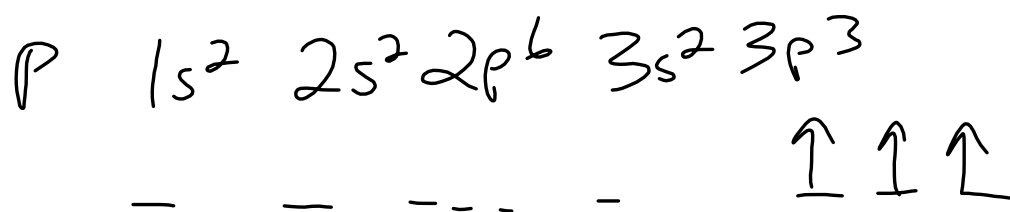
Nov 1-8:30 AM



Nov 1-8:34 AM



Nov 1-8:36 AM



Nov 1-8:39 AM

Chap 7 PT

Today - At #, # p

old - Mendeleev ~~At #~~

Groups → # val e⁻, Similar chem prop.
(family)

Nov 1-8:41 AM

7/15, 23

Nov 1-8:47 AM