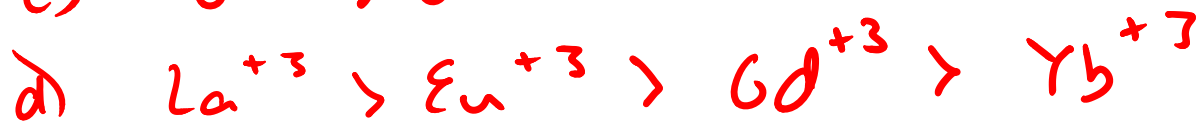
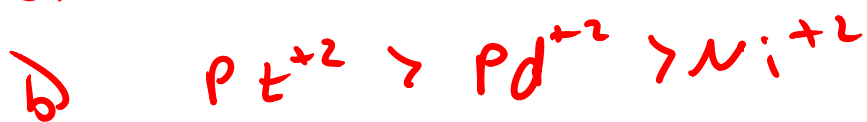
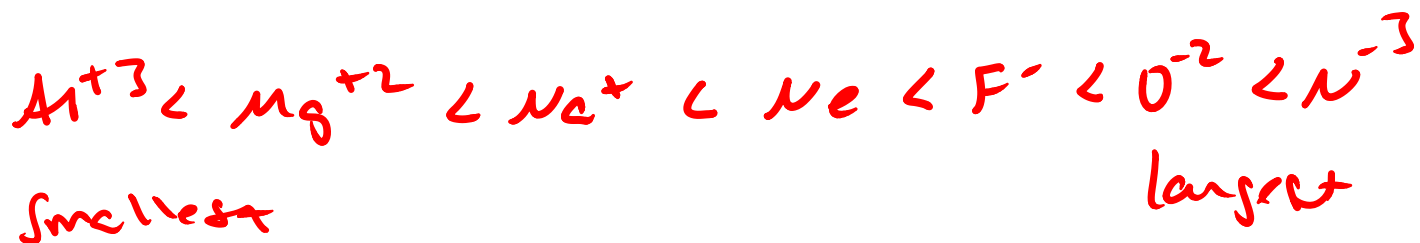


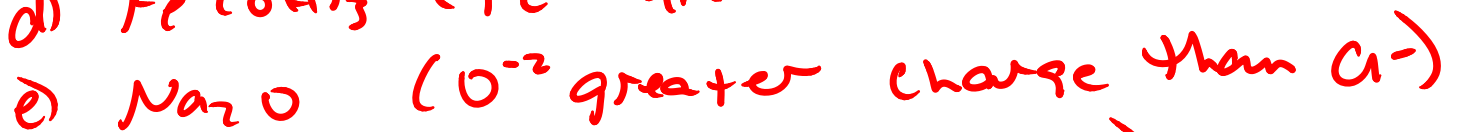
- 47) a) $\text{Sc}^{+3} : [\text{Ar}]$
b) $\text{Te}^{-2} : [\text{Xe}]$
c) $\text{Ce}^{+4} : [\text{Xe}]$ and $\text{Ti}^{+4} : [\text{Ar}]$
d) $\text{Ba}^{+2} : [\text{Xe}]$

- 47) a) Na^+ has $10e^-$
 F^- , O^{-2} , N^{-3}
b) Ca^{+2} has $18e^-$
 Cl^- , S^{-2} , P^{-3}
c) Al^{+3} has $10e^-$
 F^- , O^{-2} , N^{-3}
d) Rb^+ has $36e^-$
 Br^- , Se^{-2} , As^{-3}

4a) Ne has 10e-



53) $\frac{a_1 a_2}{r}$



ss)

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