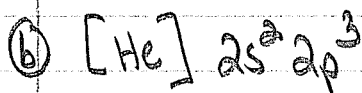
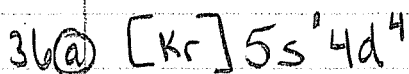
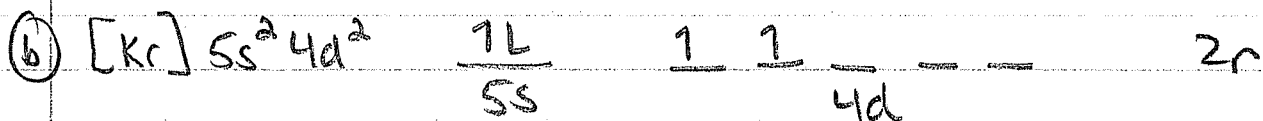
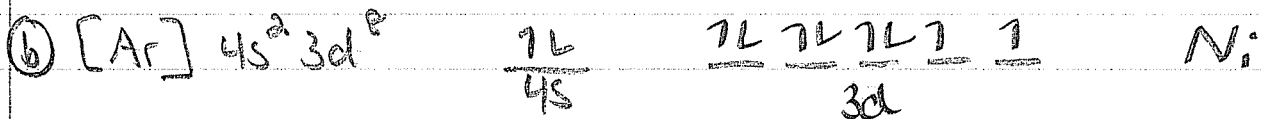
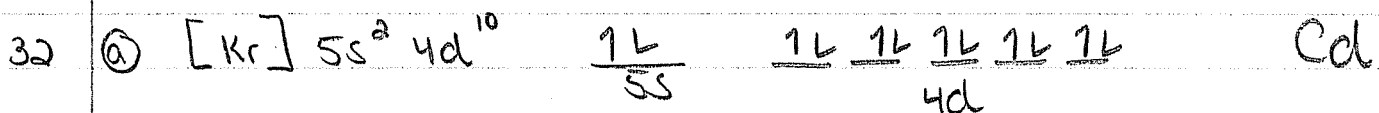
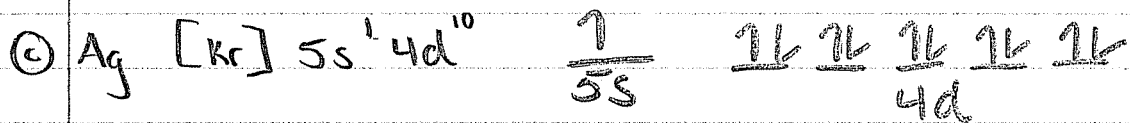
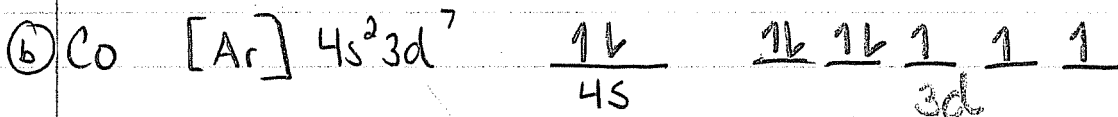
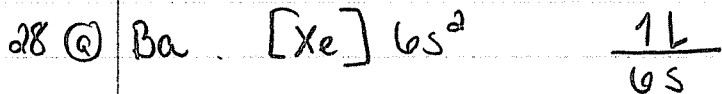
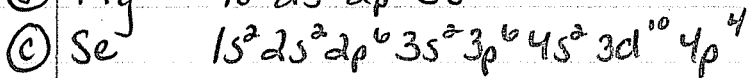
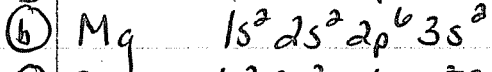
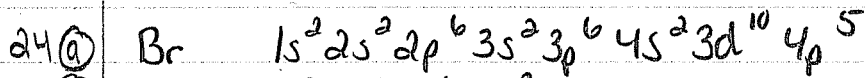
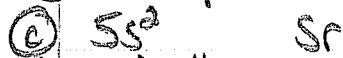
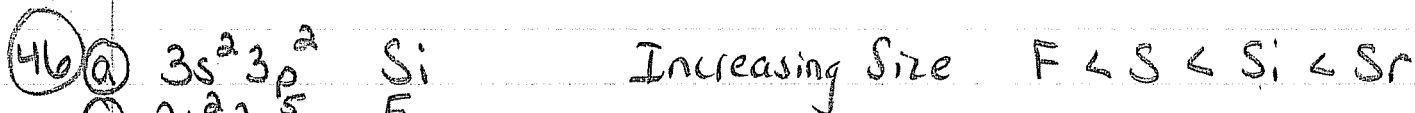
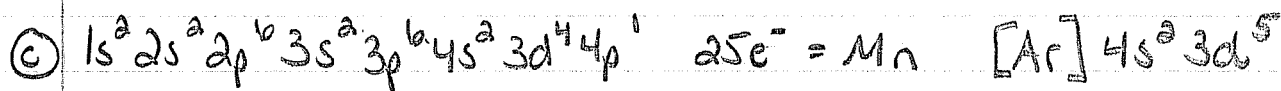
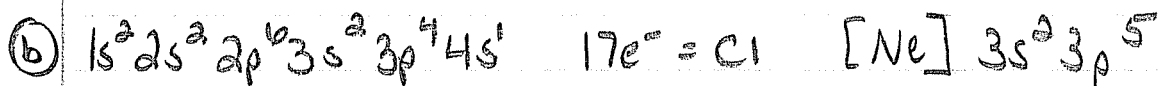
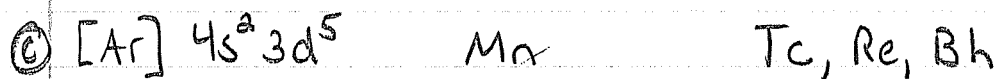


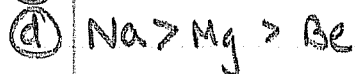
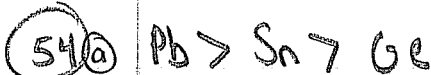
Ch. 8 HW ~~24, 26, 32, 34, 36, 40, 44, 46, 47, 54, 56, 58, 60, 70,~~
~~74, 76, 80, 82, 88, 89, 100, 101~~





Increasing IE $Sr < Si < S < F$

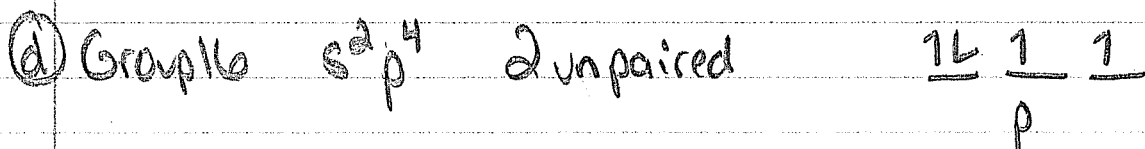
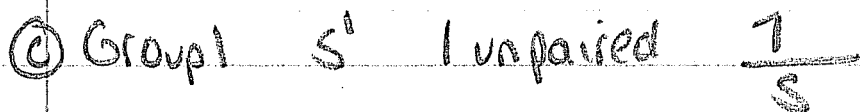
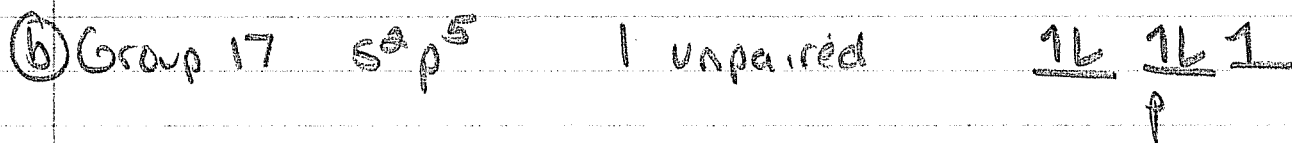
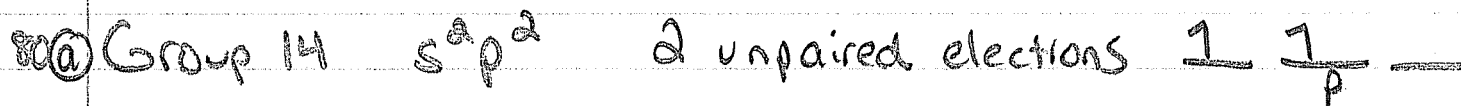
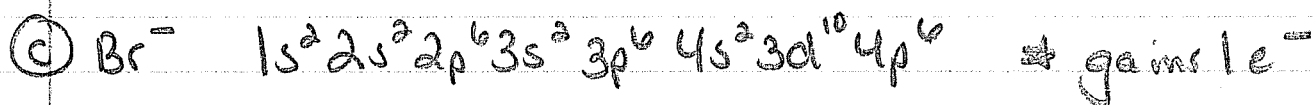
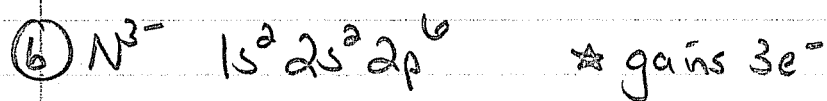
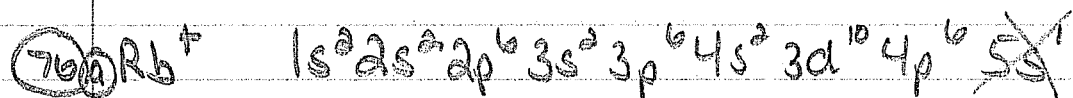
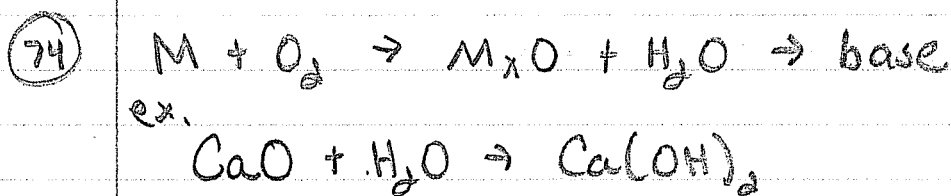
47 high IE nonmetals, top right
low IE metals, bottom left

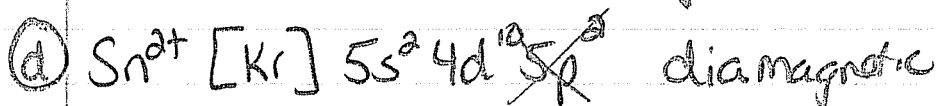
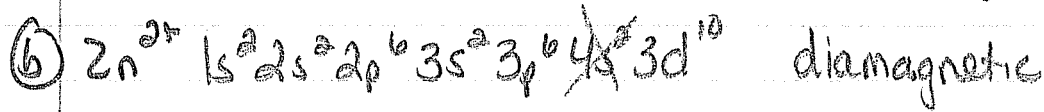
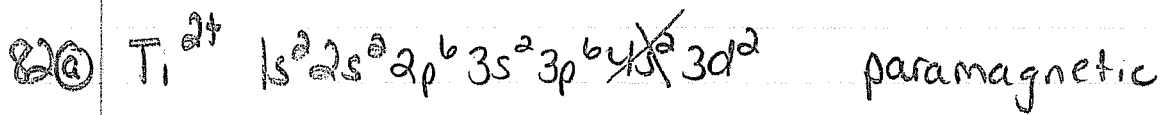


58 Biggest jump between IE₂ + IE₃
SO Mg $1s^2 2s^2 2p^6 3s^2$

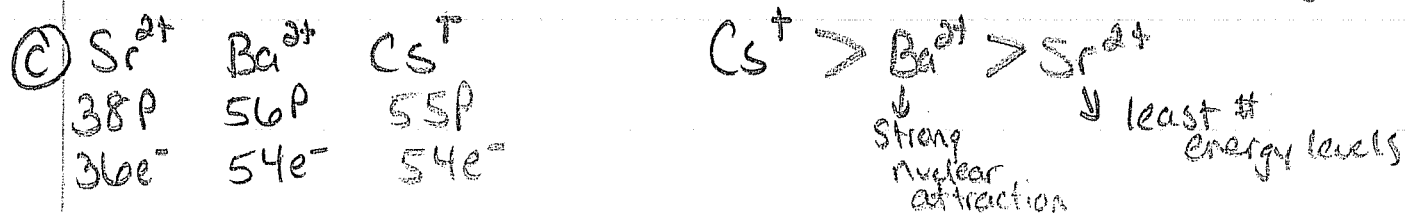
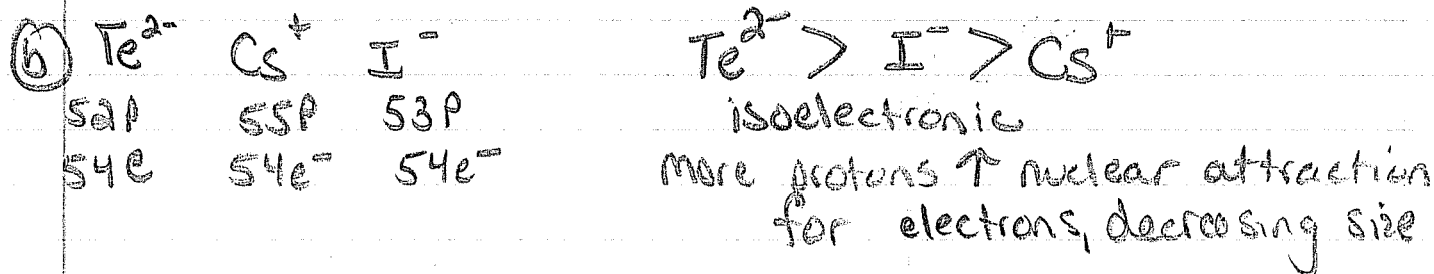
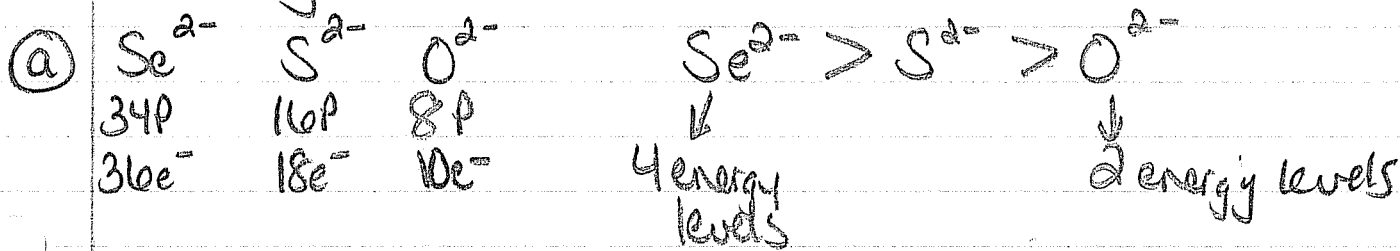
- 60 (a) Al wants to lose last 3s¹ electron to have noble gas
 (b) Sc
 (c) Al

- 70 (a) S
 (b) In
 (c) As





88) decreasing size



- 89a) Oxygen
 b) Cs
 c) Al
 d) carbon
 e) Rb
 f) Bi

- g) Tl
 h) Kr
 i) Si
 j) Ru
 k) V
 l) In

- m) Sc
 n) Mn
 o) Lu
 p) S
 q) Sr
 r) As

37p
37e

37p
36e⁻



b) isoelectronic w/ Kr

c) Rb^+ should be smaller
 Br^- should be larger > (B)

