Name				
Periodic Trends				
I. Which of the follow	wing in each pair has th	he larger atomic radius	?	
1) Li or K				
2) Ca or Ni				
3) Ga or B				
4) O or C				
5) Be or Ba				
6) Si or S				
7) Fe or Kr				
II. Which of the follow	wing in each pair has t	he larger electronegativ	vity?	
8) Li or K				
9) Ca or Ni				
10) Ga or B				
11) O or C				
12) Be or Ba				
13) Si or S				
14) Fe or Kr				
15) What do you notic	ce about the answers ir	n I vs. the answers in II	? Why is this true?	
III. Which of the follo	owing in each pair has	the larger ionization en	ergy?	
16) Li or K				
17) Ca or Ni				
18) Ga or B				
19) O or C				
20) Be or Ba				
21) Si or S				
22) Fe or Kr				
23) What do you notic	ce about your answers	in I vs. your answers in	ı III? Why in this tru	e?
IV. Which ion will ha	ve the smaller atomic	radius?		
24) K^+ or O^{2-}				
25) Ba^{2+} or I^{-}				
26) Al ³⁺ or Cl ⁻				
24) K ⁺ or O ²⁻ 25) Ba ²⁺ or I ⁻ 26) Al ³⁺ or Cl ⁻ 27) K ⁺ or Ca ⁺²				
28) P or S^2				
29) Why is the last an	swer S ²⁻ ? Explain			
V For each of the fall	lowing give the shares	that it will have in a	obla gas configuration	2
		e that it will have in a no 33) B		
30) 0 31)	NU 32) I	33) D	J+) IN J	<i>55)</i> 5 1