

## Periodic Trends

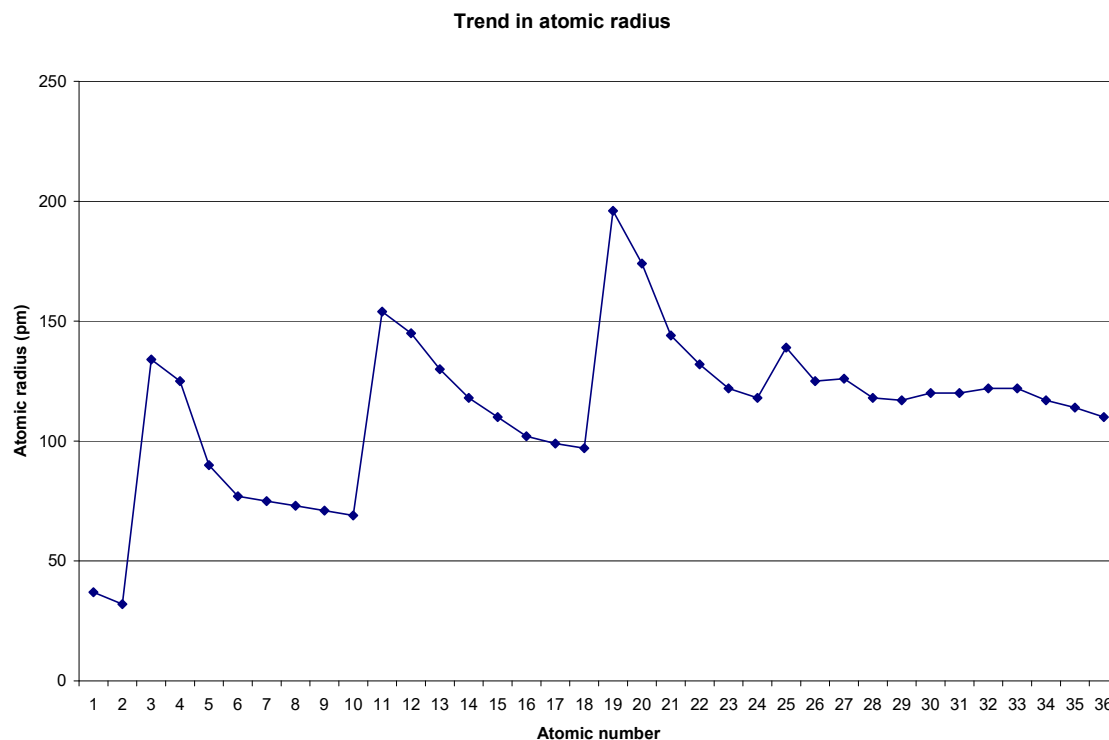
### Part I: Definitions

Define the following terms. Then rewrite the definition in your own words.

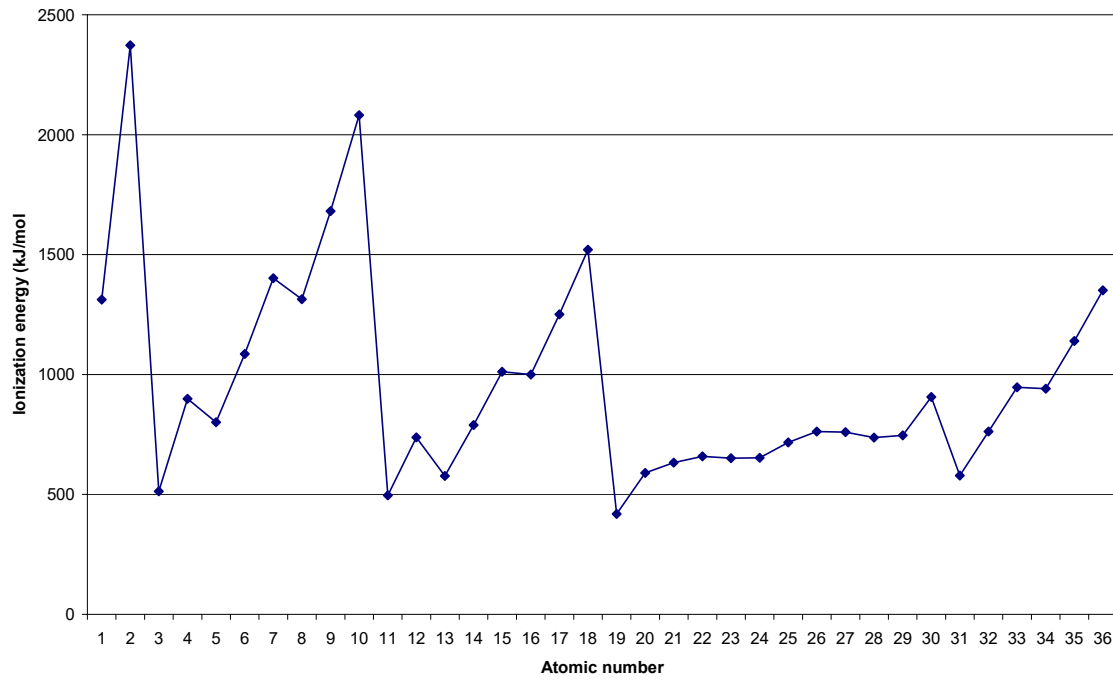
<i>Word</i>	<i>Definition</i>	<i>Rewritten definition</i>
<i>Atomic radius</i>		
<i>Ionization energy</i>		
<i>Electronegativity</i>		
<i>Group</i>		
<i>Period</i>		

### Part II: Graphs

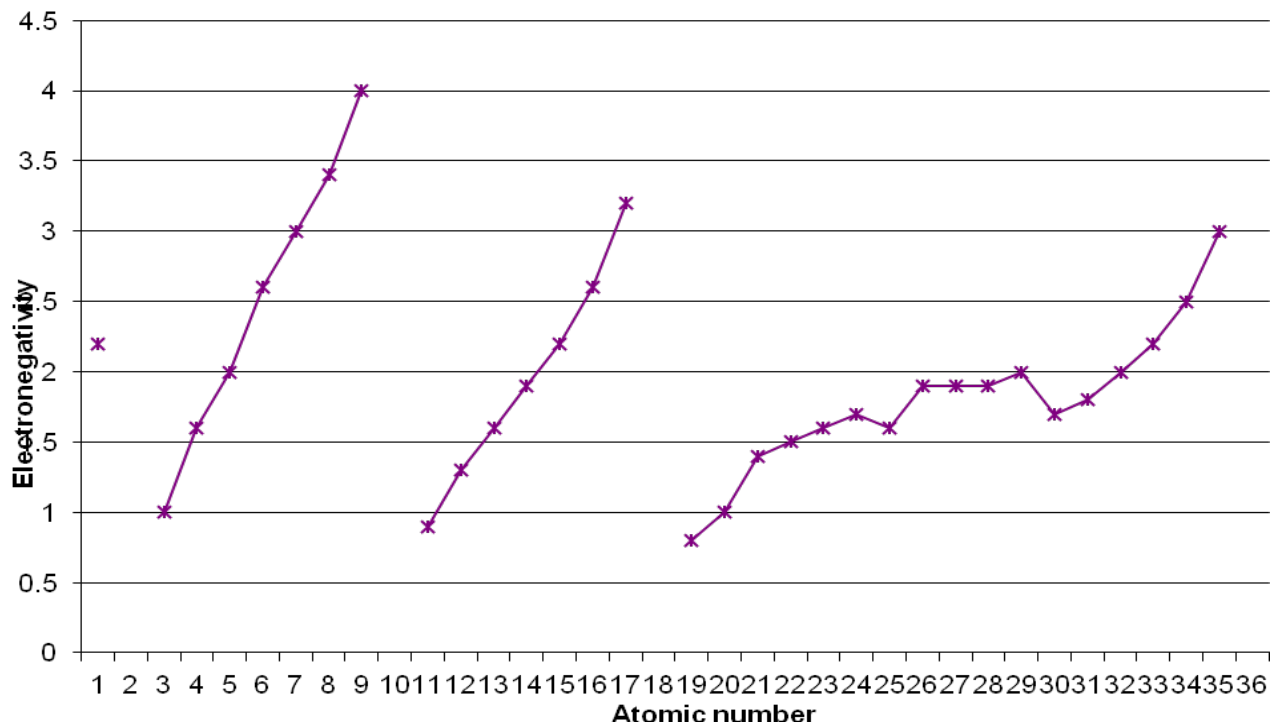
On the following graphs, label each element with the element symbol.



Trend in ionization energy



Trend in electronegativity



### Part III: Trends

Summarize the trends by filling in the blanks.

#### Atomic radius

1. As you go across a period on the periodic table, the atomic radius \_\_\_\_\_.
2. This is because...
3. As you go down a column on the PT, the atomic radius \_\_\_\_\_.
4. This is because...

#### Ionization energy

5. As you go across a period on the periodic table, the ionization energy \_\_\_\_\_.
6. This is because...
7. As you go down a column on the PT, the ionization energy \_\_\_\_\_.
8. This is because...
9. How does ionization energy relate to atomic radius/size?

#### Electronegativity

10. As you go across a period on the periodic table, the electronegativity \_\_\_\_\_.
11. This is because...
12. As you go down a column on the PT, the electronegativity \_\_\_\_\_.
13. This is because...
14. How does electronegativity relate to atomic radius/size?

**Part IV: Labels**

Label the arrows to show if the trends increase or decrease across a period or down a column.

