

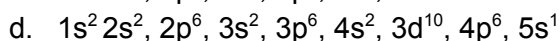
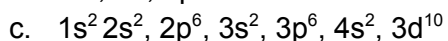
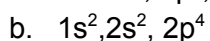
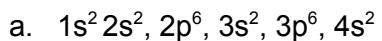
Chapter 10- Homework

1. What are the differences between classical mechanics and quantum mechanics?

2. Fill in the chart for each quantum number

| Symbol | Description |
|--------|-------------|
| n | |
| l | |
| m_l | |
| m_s | |

3. Which elements have the following electron configurations?



4. What is the same about each row in the periodic table?

5. What is the same about each column of the periodic table?

6. What is the electron configuration for Ti?

7. How many valence e- does Br have?

8. A. How does ionization energy change across a row?

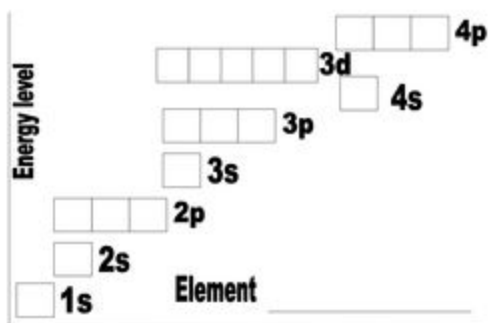
B. How does ionization energy change down a column?

9. A. How does sizes of molecules change across a row?

B. How does sizes of molecules change down a column?

10. Fill in the electron levels on the box diagrams for the following elements.

N



Al

