Periodic Trends

**Directions:** Draw and label arrows to represent each of the following trends: atomic radius, ionic radius (cation and anion separately), electronegativity, 1\textsuperscript{st} ionization energy, electron affinity, metallic character and nonmetallic character. Include a statement about the reason why we see each trend.

**Reasoning:**
- Atomic radius
  - Horizontal:
  - Vertical:
- Ionic radius
  - Cation:
  - Anion:
- Electronegativity
  - Horizontal:
  - Vertical:
- 1\textsuperscript{st} ionization energy
  - Horizontal:
  - Vertical:
- Electron Affinity
  - Horizontal:
  - Vertical:
- Metallic character:
- Nonmetallic character: