Trend in physical properties

NAME: _____

Based on the observation of the straw histograms you and your classmates prepared, state/describe and, where required, give a short explanation for the general trend across and down the periodic table in the following physical properties.

1. Ionization energy

Across: _____

Explanation: _____

Down: _____

Explanation: _____

[HL only] State and explain the anomalous ionization energies across a period. State what they indicate about stabilities of subshells and electronic configurations of those elements.

_____

_____

_____

_____

_____

2. Electron affinity

Across: _____

Explanation: _____

Down: _____

Explanation: _____

3. Atomic radius

Across: _____

Explanation: _____

Down: _____

Explanation: _____

4. Ionic radius

Across: _____

_____

_____

Explanation: _____

_____

_____

Down: _____

Explanation: _____

5. Melting point

Across: _____

_____

_____

Down: _____

_____

_____

6. Electronegativity

Across: _____

_____

Explanation: _____

_____

Down: _____

_____

Explanation: _____

_____

Why are no electronegativity values for noble gases listed?