

HOMEWORK 5-9**VOCABULARY****Define.**

1. electron affinity _____

2. a. anion _____

b. The formation of an anion always leads to _____

3. a. cation _____

b. The formation of a cation always leads to _____

4. valence electrons _____

GRAPHIC ORGANIZER

Complete the chart by supplying the missing information.

Element	Group Number	Electron Configuration	Number of Valence Electrons
		$[\text{Ne}]3s^1$	
Pb			
Ar			
		$[\text{Kr}]5s^2$	
O			
		$[\text{Ne}]3s^23p^1$	
I			7

STANDARDIZED TEST PREP

Circle the letter of the best answer.

- The ability of halogens to easily gain electrons helps explain the halogens'
 - brittleness.
 - high reactivities.
 - low atomic masses.
 - radioactivity.
- Which statement is true?
 - The total positive charge of the nucleus increases when an electron is added to an atom or ion.
 - Trends for electron affinities are the same within each group of the periodic table.
 - Valence electrons are generally held tightly to the nucleus of an atom.
 - The formation of a cation results in a smaller electron cloud around a nucleus.