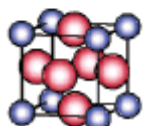
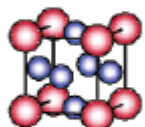
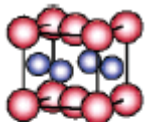


<b>HW 1</b>	<b>Inorganic Materials Chemistry</b>	<b>Name:</b>	
<b>Points:</b>	<b>C7780</b>	<b>Date:</b>	
Max. 100 points	<b>Fall 2008</b>	<b>A</b>	

1. Give stoichiometric formulas for these structures



2. Describe the polyhedral linking present in the following structures:



3. What are the oxidation states, coordination numbers and coordination geometries of the following:

Atom(s)	Compound	structure type
---------	----------	----------------

Ni, As	NiAs	
--------	------	--

Ni, O	NiO	
-------	-----	--

Ti, O	TiO <sub>2</sub>	rutile
-------	------------------	--------

Zn, S	ZnS	wurtzite
-------	-----	----------