Problem Set 6: Writing Chemical Formulas for Molecular Compounds and Acids

1. Name the following molecular	compounds.		
PCl ₅	NI ₃		-
ICl ₇	N_2O_4		-
2. Write formulas for the followin	g molecular compoun	ds.	
Nitrogen dioxide			
Silicon tetrachloride			
Phosphorus triiodide			
3. Write formulas for the followin	g acids.		
Sulfuric acid		_	
Nitric acid		_	
Acetic acid		_	
4. Write names for the following a	acids.		
HI (aq)	H ₃ PO ₄	(aq)	
HNO ₂ (aq)	H ₂ CO ₃	(aq)	
5. Write formulas for the followin	g ions, elements or co	mpounds.	
Hydrobromic acid		Cesium ion	
Tetrasulfur tetranitride		Oxygen	
Lithium carbonate		Calcium sulfide	

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6. Write names for the following compounds. HINT: It will help to first identify the substance as an ionic compound, molecular compound or acid.

LiCl	 Na ₂ SO ₃	
HNO ₂ (aq)	 Na ₂ S	
KI	 Na ₂ SO ₄	
NH ₄ Cl	 BaCl ₂	
PCl ₃	 СО	
NI ₃	 CCl ₄	
K ₂ CO ₃	 Al ₂ (SO ₄) ₃	