**Practice naming and writing Anions and Cations Chapter 7.1 Part 1**

**Directions: Give either the name or formula (with the correct charge) for each of the cations:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Formula** | **Name** | **Formula** |
|  | Zn+2 | chromium(II) |  |
| mercury(II) |  |  | H3O+ |
| ferric |  | manganese(II) |  |
| hydrogen |  |  | Sr+2 |
|  | Ag+ | nitronium |  |
| barium |  | stannic |  |
|  | Mg+2 | mercuric |  |
| chromic |  |  | Fe+3 |
| copper(I) |  |  | Ca+2 |
| sodium |  | lead(II) |  |
| calcium |  |  | Mn+3 |
|  | Sn+2 |  | NH4+ |
|  | NO2+ |  | K+ |
| manganous |  | hydronium |  |
|  | Cr+3 | tin(IV) |  |
|  | Hg2+2 | ferrous |  |
| strontium |  |  | Cu+2 |
|  | Cu+ | chromous |  |
| manganic |  |  | Li+ |
| magnesium |  | mercury(I) |  |
| stannous |  | manganese(III) |  |
| cuprous |  |  | Fe+2 |
| iron(III) |  |  | Ba+2 |
|  | H+ |  | Cr+2 |
| potassium |  | iron(II) |  |
|  | Pb+2 |  | Hg+2 |
| lithium |  | cupric |  |
|  | Mn+2 | mercurous |  |
| ammonium |  |  | Sn+4 |
|  | Na+ | chromium(III) |  |
| silver |  | zinc |  |
| tin(II) |  | copper(II) |  |

**Give either the name or formula (with the correct charge) for each of the anions:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Formula** | **Name** | **Formula** |
| hypobromite |  |  | PO43- |
|  | F- | formate |  |
| acetate |  | carbonate |  |
| bromide |  |  | NO2- |
|  | BrO3- | amide |  |
|  | HCOO- | sulfate |  |
| dichromate |  |  | H- |
|  | Cl- | iodate |  |
|  | C2O42- |  | NO3- |
| chlorate |  |  | HCO3- |
| arsenate |  |  | CrO42- |
|  | SO32- | phosphate |  |
| peroxide |  |  | SCN- |
|  | AsO33- | permanganate |  |
|  | OCN- |  | HSO4- |
| cyanide |  | chromate |  |
| hydride |  |  | H2PO4- |
|  | N3- | chloride |  |
|  | SO42- | nitrate |  |
| hydrogen sulfate |  | arsenite |  |
|  | S2O32- | fluoride |  |
| sulfite |  |  | Br- |
|  | OH- | iodide |  |
| thiocyanate |  |  | IO3- |
|  | MnO4- | sulfide |  |
| chlorite |  |  | O2- |
|  | OCl- |  | OBr- |
| nitride |  | hydrogen phosphate |  |
|  | CO32- |  | ClO2- |
| hydrogen carbonate (bicarbonate) |  |  | Cr2O72- |
| oxalate |  | bromate |  |
| nitrite |  |  | S2- |
|  | CH3COO- |  | ClO4- |
|  | HPO42- |  | AsO43- |
| oxide |  |  | I- |
| cyanate |  |  | O22- |
|  | ClO3- | dihydrogen phosphate |  |
| thiosulfate |  | hypochlorite |  |
| hydroxide |  | perchlorate |  |

**Give either the name or formula (with the correct charge) for each of the cations:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Formula | Name | Formula |
| zinc | Zn+2 | chromium(II) | Cr+2 |
| mercury(II) | Hg+2 | hydronium | H3O+ |
| ferric | Fe+3 | manganese(II) | Mn+2 |
| hydrogen | H+ | strontium | Sr+2 |
| silver | Ag+ | nitronium | NO2+ |
| barium | Ba+2 | stannic | Sn+4 |
| magnesium | Mg+2 | mercuric | Hg+2 |
| chromic | Cr+3 | iron(III) | Fe+3 |
| copper(I) | Cu+ | calcium | Ca+2 |
| sodium | Na+ | lead(II) | Pb+2 |
| calcium | Ca+2 | manganese(III) | Mn+3 |
| tin(II) | Sn+2 | ammonium | NH4+ |
| nitronium | NO2+ | potassium | K+ |
| manganous | Mn+2 | hydronium | H3O+ |
| chromium(III) | Cr+3 | tin(IV) | Sn+4 |
| mercury(I) | Hg2+2 | ferrous | Fe+2 |
| strontium | Sr+2 | copper(II) | Cu+2 |
| copper(I) | Cu+ | chromous | Cr+2 |
| manganic | Mn+3 | lithium | Li+ |
| magnesium | Mg+2 | mercury(I) | Hg2+2 |
| stannous | Sn+2 | manganese(III) | Mn+3 |
| cuprous | Cu+ | iron(II) | Fe+2 |
| iron(III) | Fe+3 | barium | Ba+2 |
| hydrogen | H+ | chromium(II) | Cr+2 |
| potassium | K+ | iron(II) | Fe+2 |
| lead(II) | Pb+2 | mercury(II) | Hg+2 |
| lithium | Li+ | cupric | Cu+2 |
| manganese(II) | Mn+2 | mercurous | Hg2+2 |
| ammonium | NH4+ | tin(IV) | Sn+4 |
| sodium | Na+ | chromium(III) | Cr+3 |
| silver | Ag+ | zinc | Zn+2 |
| tin(II) | Sn+2 | copper(II) | Cu+2 |

**Give either the name or formula (with the correct charge) for each of the anions:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Formula | Name | Formula |
| hypobromite | OBr- | phosphate | PO43- |
| fluoride | F- | formate | HCOO- |
| acetate | CH3COO- | carbonate | CO32- |
| bromide | Br- | nitrite | NO2- |
| bromate | BrO3- | amide | NH2- |
| formate | HCOO- | sulfate | SO42- |
| dichromate | Cr2O72- | hydride | H- |
| chloride | Cl- | iodate | IO3- |
| oxalate | C2O42- | nitrate | NO3- |
| chlorate | ClO3- | hydrogen carbonate | HCO3- |
| arsenate | AsO43- | chromate | CrO42- |
| sulfite | SO32- | phosphate | PO43- |
| peroxide | O22- | thiocyanate | SCN- |
| arsenite | AsO33- | permanganate | MnO4- |
| cyanate | OCN- | hydrogen sulfate | HSO4- |
| cyanide | CN- | chromate | CrO42- |
| hydride | H- | dihydrogen phosphate | H2PO4- |
| nitride | N3- | chloride | Cl- |
| sulfate | SO42- | nitrate | NO3- |
| hydrogen sulfate | HSO4- | arsenite | AsO33- |
| thiosulfate | S2O32- | fluoride | F- |
| sulfite | SO32- | bromide | Br- |
| hydroxide | OH- | iodide | I- |
| thiocyanate | SCN- | iodate | IO3- |
| permanganate | MnO4- | sulfide | S2- |
| chlorite | ClO2- | oxide | O2- |
| hypochlorite | OCl- | hypobromite | OBr- |
| nitride | N3- | hydrogen phosphate | HPO42- |
| carbonate | CO32- | chlorite | ClO2- |
| hydrogen carbonate  or bicarbonate | HCO3- | dichromate | Cr2O72- |
| oxalate | C2O42- | bromate | BrO3- |
| nitrite | NO2- | sulfide | S2- |
| acetate | CH3COO- | perchlorate | ClO4- |
| hydrogen phosphate | HPO42- | arsenate | AsO43- |
| oxide | O2- | iodide | I- |
| cyanide | CN- | amide | NH2- |
| cyanate | OCN- | peroxide | O22- |
| chlorate | ClO3- | dihydrogen phosphate | H2PO4- |
| thiosulfate | S2O32- | hypochlorite | OCl- |
| hydroxide | OH- | perchlorate | ClO4- |