

bonus for nomenclature (Homework)

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1.

Write the formula for each of the following substances. (Type your answer using the format CH₄ for CH₄ and (NH₄)₂CO₃ for (NH₄)₂CO₃.)

- (a) nitrous acid
- (b) ammonium dichromate
- (c) strontium nitrate
- (d) lithium peroxide
- (e) hydrotelluric acid
- (f) calcium bromide
- (g) hypochlorous acid
- (h) sodium hydrogen phosphate
- (i) calcium chlorate
- (j) cesium perchlorate
- (k) lithium sulfate
- (l) sodium peroxide

2.

Name the following compounds. (Type your answer using the format iron(II) for Fe²⁺.)

- (a) Fe₂(CO₃)₃
- (b) HClO₃
- (c) Cr₂S₃
- (d) CoCl₃
- (e) CuSO₄
- (f) LiHCO₃
- (g) Cu(MnO₄)₂

3.

Name each of the following binary compounds of nonmetallic elements.

- (a) IF₅
- (b) AsCl₃
- (c) SeO
- (d) XeF₄
- (e) NI₃
- (f) B₂O₃

4.

Name each of the following compounds.

- (a) BrF
- (b) SF_6
- (c) $\text{Fe}(\text{C}_2\text{H}_3\text{O}_2)_3$
- (d) CaCrO_4
- (e) K_2O_2
- (f) OF_2

5.

Write the name of each of the following ionic substances, using the system that includes a Roman numeral to specify the charge of the cation.

- (a) SnBr_4
- (b) PbBr_2
- (c) HgO
- (d) FeCl_3
- (e) MnI_2
- (f) CoCl_3