

1. Write the chemical formulas for the following ionic compounds:

a. iron (III) chloride

b. potassium sulfate

c. calcium nitrate

d. lithium phosphate

e. copper (II) chloride

f. nickel (II) nitrate

g. manganese (IV) oxide

h. lead (II) nitrate

2. Name the following ionic compounds

a.  $\text{CaSO}_4$

b.  $\text{CuO}$

c.  $\text{Sr}(\text{NO}_3)_2$

d.  $\text{K}_3\text{PO}_4$

e.  $\text{NaOH}$

f.  $\text{CrCl}_3$

g.  $\text{Li}_3\text{PO}_4$

h.  $\text{KNO}_3$

i.  $\text{Pb}(\text{OH})_2$

j.  $\text{NH}_4\text{Cl}$

k.  $\text{MgSO}_4$

l.  $(\text{NH}_4)_2\text{S}$