Chemical Formula Writing Worksheet

Write chemical formulas for the compounds in each box. The names are found by finding the intersection between the cations and anions. Example: The first box is the intersection between the "zinc" cation and the "chloride" anion, so you should write "$ZnCl_2$", as shown.

		Zn^{+2}	Fe^{+2}	Fe^{+3}	Ga^{+3}	Ag^{+}	Pb^{+4}
Cl^-	chloride	$ZnCl_2$	$FeCl_2$	$FeCl_3$	$GaCl_3$	$AgCl$	$PbCl_4$
$C_2H_3O_2^-$	acetate	$Zn(C_2H_3O_2)_2$	$Fe(C_2H_3O_2)_2$	$Fe(C_2H_3O_2)_3$	$Ga(C_2H_3O_2)_3$	$AgC_2H_3O_2$	$Pb(C_2H_3O_2)_4$
NO_3^-	nitrate	$Zn(NO_3)_2$	$Fe(NO_3)_2$	$Fe(NO_3)_3$	$Ga(NO_3)_3$	$AgNO_3$	$Pb(NO_3)_4$
O^{-2}	oxide	ZnO	FeO	Fe_2O_3	Ga_2O_3	Ag_2O	PbO_2
N^{-3}	nitride	Zn_3N_2	Fe_3N_2	FeN	GaN	Ag_3N	Pb_3N_4
SO_4^{-2}	sulfate	$ZnSO_4$	$FeSO_4$	$Fe_2(SO_4)_3$	$Ga_2(SO_4)_3$	Ag_2SO_4	$Pb(SO_4)_2$

Write the formulas for the following compounds:

1) copper (II) chloride $CuCl_2$
2) lithium acetate $LiC_2H_3O_2$
3) vanadium (III) selenide V_2Se_3
4) manganese (IV) nitride Mn_3N_4
5) beryllium oxide BeO
6) sodium sulfate Na_2SO_4
7) aluminum arsenide $AlAs$ (*Give + charge first)
8) potassium permanganate $KMnO_4$
9) chromium (VI) cyanide $Cr(CN)_6$
10) tin (II) sulfite $SnSO_3$
11) vanadium (V) fluoride VF_5
12) ammonium nitrate NH_4NO_3