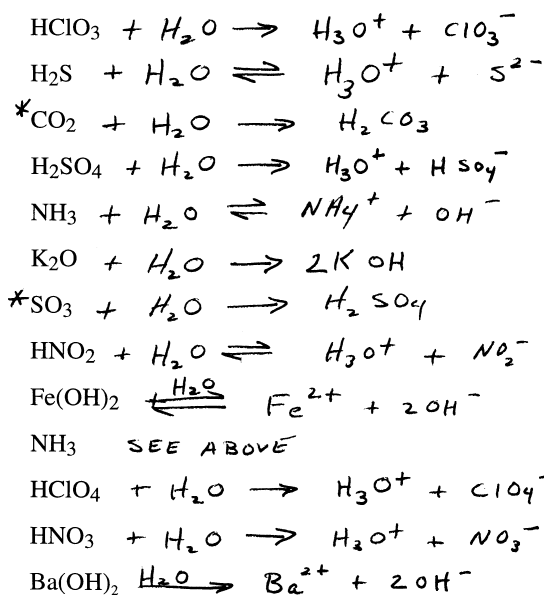


Chemistry 105 - Fundamental Chemistry

Classify each of the following as a strong acid, weak acid, strong base, weak base, non-metal oxide, a metal oxide, or a salt.

NaF	S	HClO ₃	SA	NH ₄ F	S	H ₂ S	WA
CO ₂	NMO	H ₃ PO ₄	WA	H ₂ SO ₄	SA	NH ₃	WB
K ₂ O	MO	SO ₃	NMO	HNO ₂	WA	Fe(OH) ₂	WB
NH ₃	WB	HClO ₄	SA	HNO ₃	SA	KBr	S
KCl	S	Ba(OH) ₂	SB	NH ₄ Br	S	H ₃ CCO ₂ H	WA

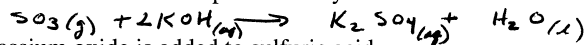
Write a complete chemical equation for the reaction of the following compounds with water.



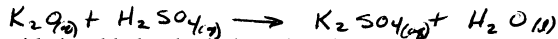
ALL STATE
SYMBOLS
SHOULD BE
(A_g)
EXCEPT THOSE
COMPOUNDS
MARKED BY *
* ⇒ (g) AND
H₂O(l)

Give a complete balanced chemical equation for the following reactions.

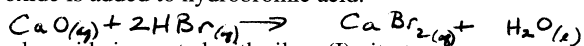
1) Sulfur trioxide is reacted with potassium hydroxide.



2) Solid potassium oxide is added to sulfuric acid.



3) Calcium oxide is added to hydrobromic acid.



4) Potassium bromide is reacted with silver (I) nitrate.

