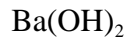
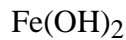
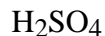


Chemistry 105 - Fundamental Chemistry

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 | HClO ₃ | NH ₄ F | H ₂ S |
| CO ₂ | H ₃ PO ₄ | H ₂ SO ₄ | NH ₃ |
| K ₂ O | SO ₃ | HNO ₂ | Fe(OH) ₂ |
| NH ₃ | HClO ₄ | HNO ₃ | KBr |
| KCl | Ba(OH) ₂ | NH ₄ Br | H ₃ CCO ₂ H |

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



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.