Name: Date:
FORMULA WRITING & BALANCING EQUATIONS
Write and balance the following equations.
1. $Ca(AIO_2)_2 + HCl \rightarrow AICI_3 + CaCl_2 + H_2O$
2. methane + oxygen gas $\rightarrow$ carbon dioxide + water vapor
3. $(NH_4)_2SO_4 + KOH \rightarrow K_2SO_4 + NH_3 + H_2O$
4. calcium hydroxide + nitrous acid $\rightarrow$ calcium nitrite + water
5. Cu + $H_2SO_4 \rightarrow CuSO_4 + SO_2 + H_2O$
6. CeO <sub>2</sub> + KI + HCI → KCl+ CeCl <sub>3</sub> H <sub>2</sub> O+ l <sub>2</sub>
7. iron + hydrochloric acid $\rightarrow$ ferric chloride + hydrogen
8. Ho + $H_2O \rightarrow Ho(OH)_3 + H_2$