CHEMISTRY
HOMEWORK 6a. Name: _____

Write a balanced equation for each of the following reactions:

1. $MgCO_3$ + HNO_3 -----→ $Mg(NO_3)_2$ + H_2O + CO_2

2. CdS + HCl -----→ $CdCl_2$ + H_2S

3. $(NH_4)_2S$ + $ZnCl_2$ -----→ ZnS + NH_4Cl

4. Al + $CuSO_4$ -----→ $Al_2(SO_4)_3$ + Cu

5. $C_6H_{12}O_6$ -----(yeast, anaerobic conditions)-----→ C_2H_5OH + CO_2

6. CO_2 + C -----→ CO

7. $CaCO_3$ + H_3PO_4 -----→ $Ca_3(PO_4)_2$ + H_2O + CO_2

8. Fe + $H_2O(g)$ -----→ Fe_3O_4 + H_2

9. CaC_2 + H_2O -----→ $Ca(OH)_2$ + C_2H_2

10. $C_{12}H_{22}O_{11}$ + O_2 -----→ CO_2 + H_2O

11. $Al(OH)_3$ + HCl -----→ $AlCl_3$ + H_2O

12. Cu + HNO_3 -----→ $Cu(NO_3)_2$ + H_2O + NO