Name: Date: Period:

Practice: Enthalpies of Reaction

*Directions: Using enthalpies of formation values:*

1. *Calculate ∆Hrxn for the following reactions*
2. *Based on ∆Hrxn, determine if the reaction is exothermic or endothermic*

1.

NaOH(s) + CO2 (g) 🡪 NaHCO3 (s)

b.

1.

4 NH3 (g) + O2 (g) 🡪 2 N2H4 (g) + 2 H2O (l)

a.

1.

6 C(s) + 6 H2O (l) 🡪 C6H12O6 (s)

b.

a.

1.

Fe2O3 (s) + 6 HCl (g) 🡪 2 FeCl3 (s) + 3 H2O(g)

1.

2 N2O (g) 🡪 2 N2 (g) + O2 (g)

b.