Announcements – 10/20/00

■ <u>Exam#2</u>

-grading to be done later today -solution key will be online soon after -post mortem on Monday . . .

<u>Chapter 4</u>
-assigned problems coming online soon!

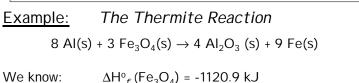
1

2

Using Enthalpies of Formation

■ Hess's Law and tablulated △H^o_f values are a powerful tool for predicting enthalpy changes for reactions:

 $\Delta H^{o} = \Sigma \Delta H^{o}_{f}$ (products) - $\Sigma \Delta H^{o}_{f}$ (reactants)



 $\Delta H_{f}^{0}(AI_{2}O_{3}) = -1669.8 \text{ kJ}$

So:

- $\Delta H^{\circ} = [4(-1669.8 \text{ kJ/mol}) + 9(0)] [3(-1120.9 \text{ kJ/mol}) + 8(0)]$
 - ΔH° = (-6679.2 kJ) (-3362.7) = <u>-3316.5 kJ</u>

