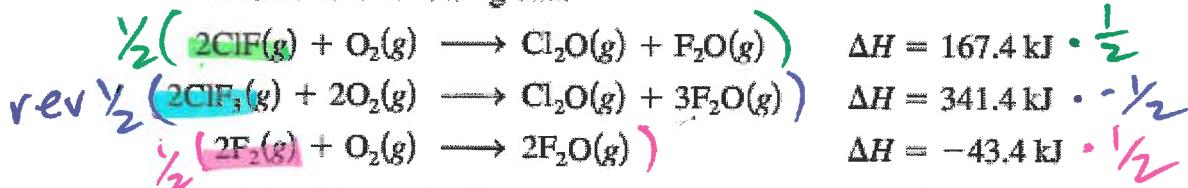
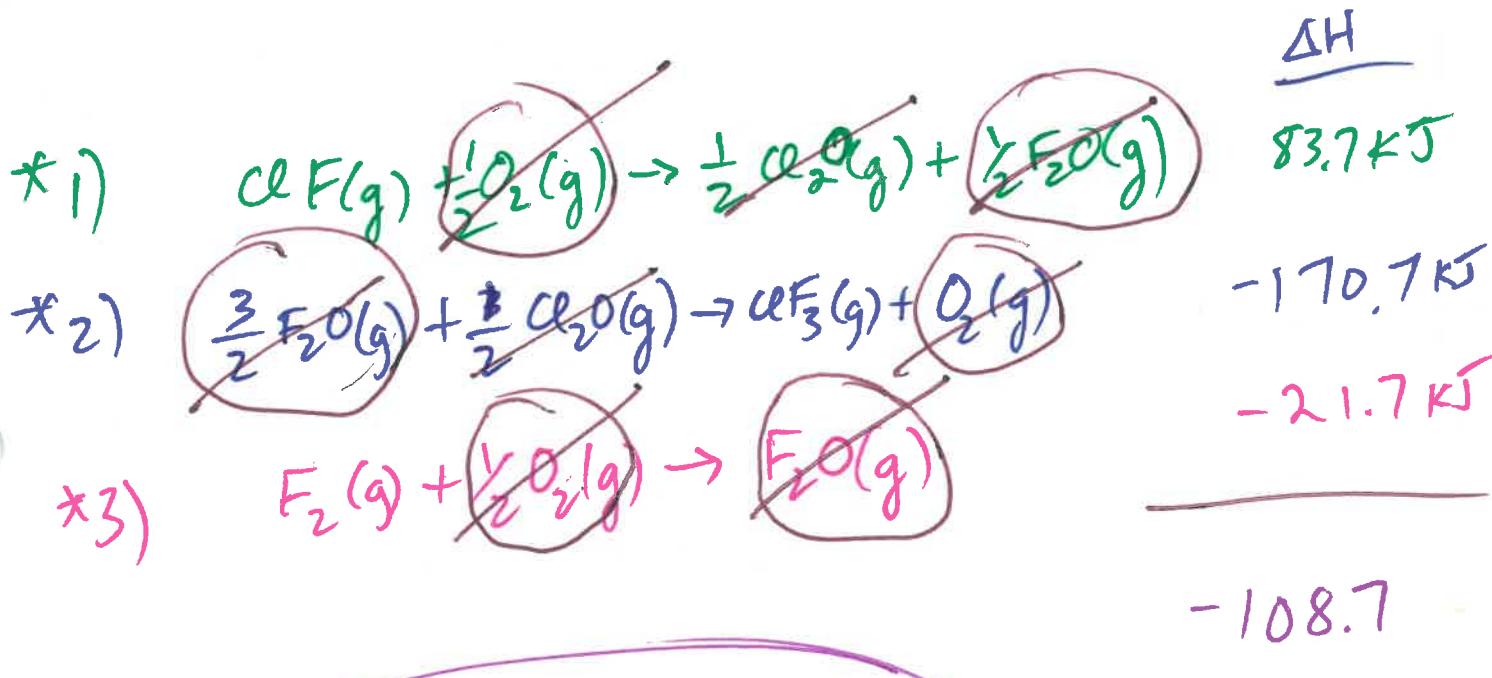


Chapter 6 - Hess' Law Examples from Zumdahl 9th Ed

72. Given the following data

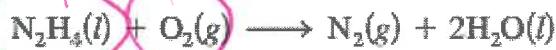


calculate ΔH for the reaction

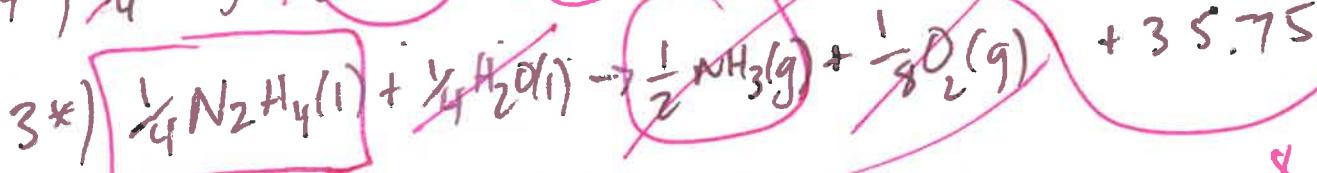
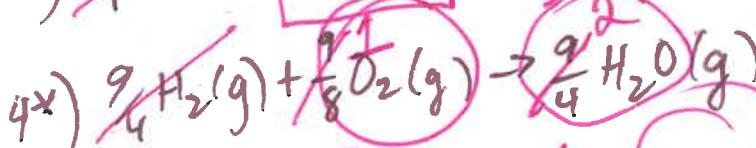
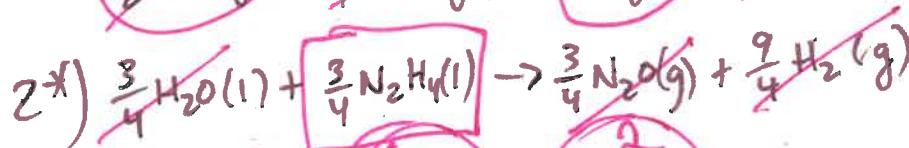
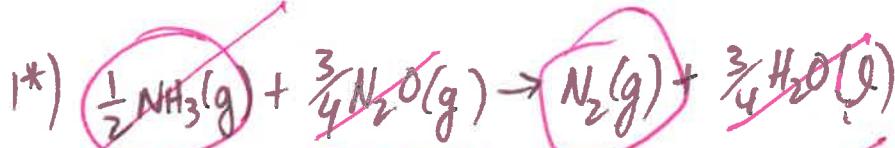
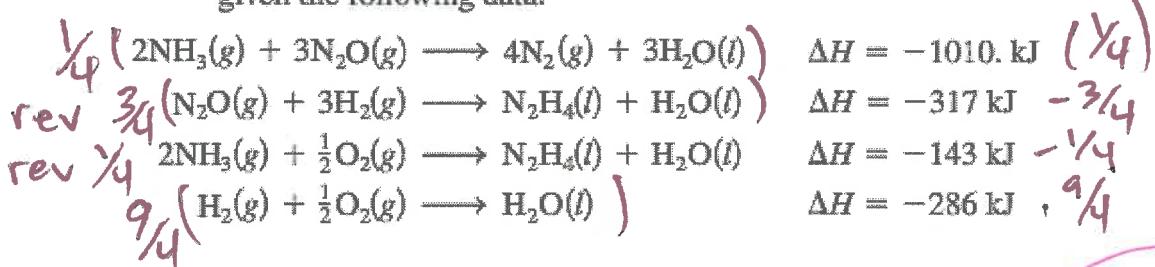


$$\Delta H = -108.7 \text{ kJ}$$

74. Calculate ΔH for the reaction



given the following data:



$$-252.5 \text{ kJ}$$

$$+237.75 \text{ kJ}$$

$$-643.5$$

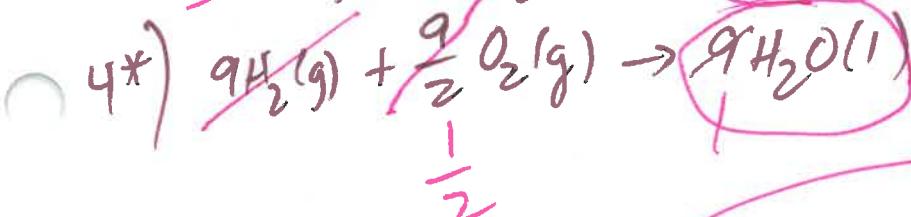
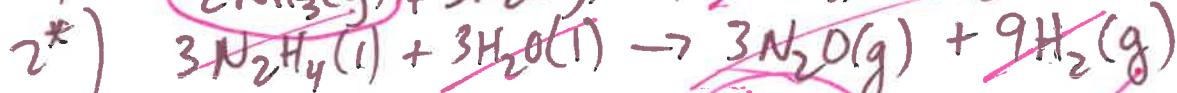
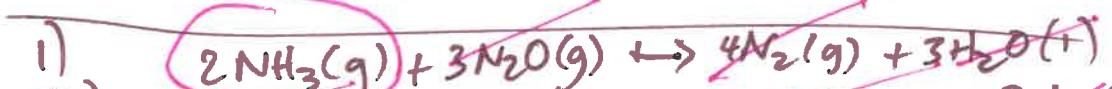
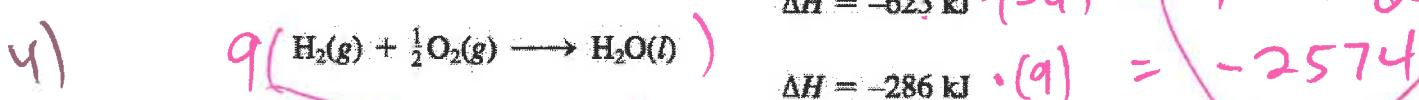
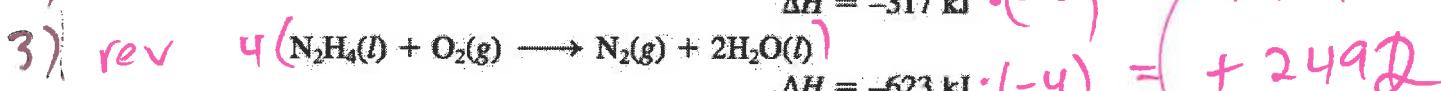
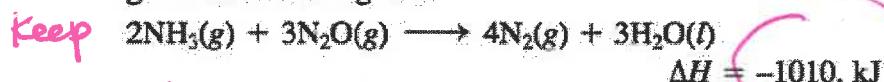
$$\frac{9}{4} - \frac{1}{4} = \frac{8}{4} = 2$$

$$\Delta H = 623 \text{ kJ}$$

80. Calculate ΔH for the reaction:



given the following data:



$$\Delta H = -141 \text{ kJ}$$