Name: Period:

BOND ENERGY/ENTHALPY WORKSHEET

Due: Tuesday May 12th, 2020

Use the following table to answer the questions. All the value are in kJ/mol



PART 1: calculate the enthalpy change of ΔHrxn of the following reactions using the bond energies above.

1. 
2. 
3. 
4. 

1. 

PART 2: Draw the Lewis structure for each reactants and products. Estimate the enthalpy change for the reaction using bond energies

1. H2 + CO2 → H2O + CO
2. 2H2O2 → 2H2O + O2
3. N2 + 3H2 → 2NH3
4. H2 + C2H4 → C2H6
5. 2C2H6 + 7O2 → 4CO2 + 6H2O
6. HCN + 2H2 → CH3NH2