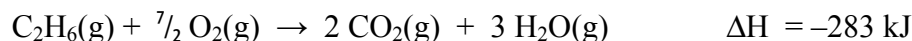
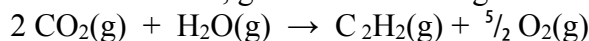


**Hess's Law Extra WS**

Name: \_\_\_\_\_

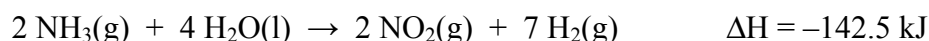
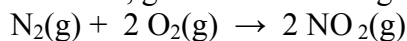
- (1) Find the  $\Delta H$  for the reaction below, given the following reactions and subsequent  $\Delta H$  values:



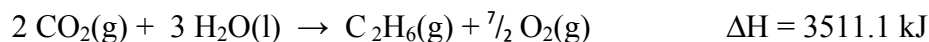
- (2) Find the  $\Delta H$  for the reaction below, given the following reactions and subsequent  $\Delta H$  values:



- (3) Find the  $\Delta H$  for the reaction below, given the following reactions and subsequent  $\Delta H$  values:



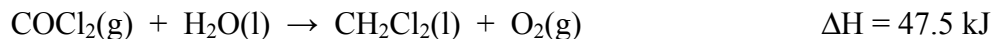
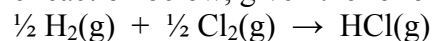
- (4) Find the  $\Delta H$  for the reaction below, given the following reactions and subsequent  $\Delta H$  values:



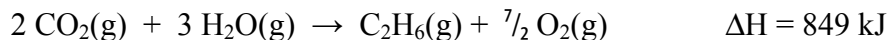
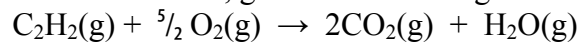
- (5) Find the  $\Delta H$  for the reaction below, given the following reactions and subsequent  $\Delta H$  values:



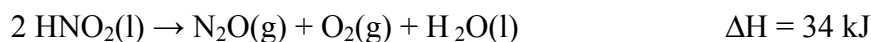
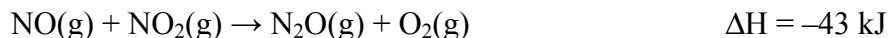
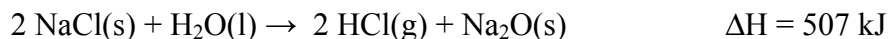
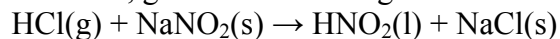
(6) Find the  $\Delta H$  for the reaction below, given the following reactions and subsequent  $\Delta H$  values:



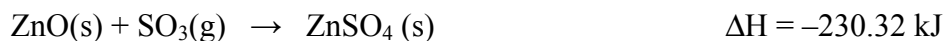
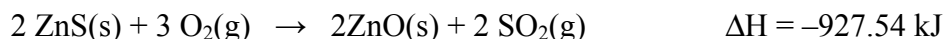
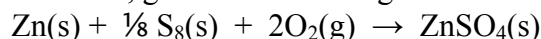
(7) Find the  $\Delta H$  for the reaction below, given the following reactions and subsequent  $\Delta H$  values:



(8) Find the  $\Delta H$  for the reaction below, given the following reactions and subsequent  $\Delta H$  values:



(9) Find the  $\Delta H$  for the reaction below, given the following reactions and subsequent  $\Delta H$  values:



Answers: (1) 235 kJ; (2) 73 kJ; (3) -83 kJ; (4) 886 kJ; (5) -46.2 kJ; (6) -230 kJ; (7) -705 kJ; (8) -79 kJ; (9) -976.03 kJ