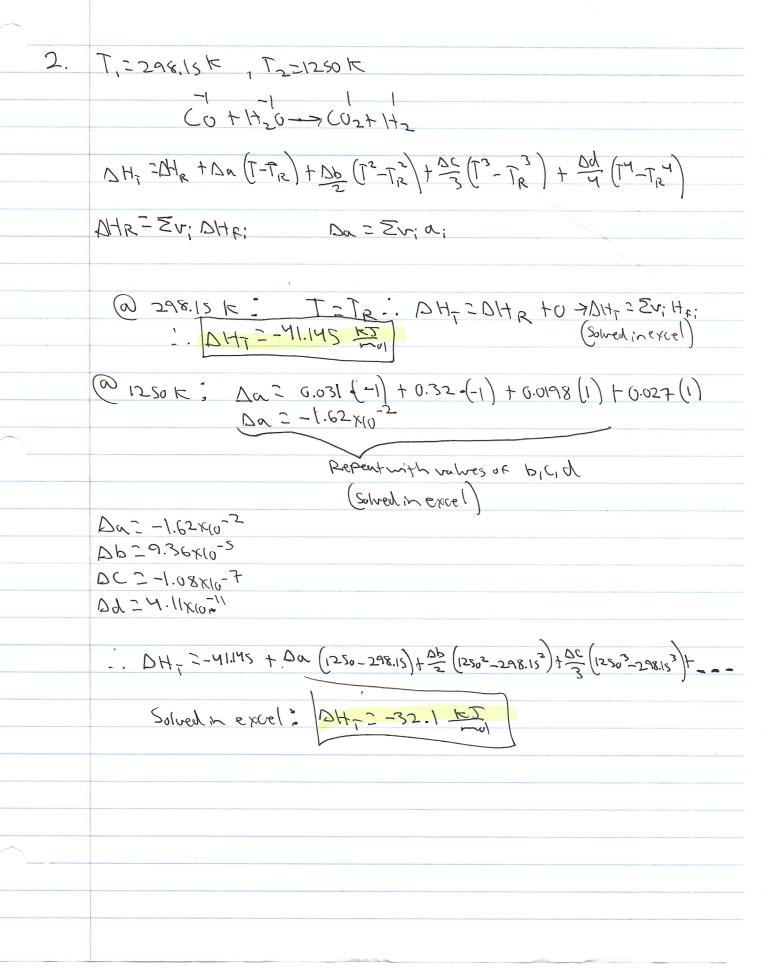
	Themo Hu 7
1.)	My (5) + H2O2 -> Mg(OH) 2 (84) + H2(9) mag = 9.5 g
, 1	
	Mg 61 + 2H20e -> Mg (H)2 + H2(g) ~~~ = 28.35 g
	Na. 1. 2 1. 2 2 1
•	Need: 2 Hz0 for IMg . Mmg - 6.391 mol
	Nw = Mw - 28.359 Nw = Mw - 28.359 18.0159/ma = 1.574mo water
	18.0159/ma - 1.37 1mg
	1 m -> 2 (mg) We have enough
	mater
1) 6)	Ti-T
(.) 121.)	Ht-H; 50
	H=-H; =0 N:+=n:+v, & H:01=n (AH* + CPDT)
	Hi - (6009) +1.574) (-285.8 + 0.0753 (293.15-298.15))
	(181120)
	H; w= -9981.63 (kg)
	Himg = 0.391 (0+ 0.0249 (293.15-298.15)) = -0.049 KJ
	H: My(0H) = 0
	Htmd055-11 K2 14: H5=0
	H+Mg(017)2 = -360,106 KT
	H+ H2= 0.5391 KJ
	H; tot - 9981.7 When DH=0, T= 72.89°C
	17 + to+ = -09 81.68
	Solved in Excel



Elosed stendy, Reversible:  $\frac{dS}{dt} = \frac{2}{7} + \frac{1}{5}$  for  $\frac{dS}{dt} = 0$ 02 Z Q = 1200 Km - 300 km - 500 km 200 - 12 - 30 3 500 = 0.533 3 X = 500 = 938 K