Chem 112	Spring 2020	Quiz 8	Whelan
SID	Last	First	
Question 1 3 Points	Consider the reaction: $2 C_2H_6(g) + 7 O_2(g) \longrightarrow 4 CO_2(g) + 6 H_2O(g)$ for which $\Delta H^\circ = -2855$ kJ and $\Delta S^\circ = 92.70$ J/K at 298 K. Calculate the entropy change of the UNIVERSE when 1.606 moles of $C_2H_6(g)$ react		
	under standard conditions at 298	K. $\Delta S^{\circ}_{Universe} = $	J/K
	Is this reaction reactant or product favored?		
	·	favored, is it <u>enthalpy favored, el</u> nd entropy? If the reaction is rea	<u> </u>
	choose reactant favored .		
Question 2 4 Points	 following reaction. Based on this value of K: ΔG° for this reaction is exp 	change for the reaction of 1.57 mo	? Cl ₂ (g)
		Δ6	9° _{r×n} = kJ
Question 3 3 Points			
	1.6	1. > 0	
	• AS _{rxn}	2. < 0 3. = 0	
	• AG _{r×n}		ow T, < 0 at high T
	• ASuniverse		ow T, > 0 at high T