Gibbs Mental Math

$\Delta H_{\rm sys}$ -T $\Delta S_{\rm sys}$ = $\Delta G_{\rm sys}$				
ΔH	ΔS	$\Delta \boldsymbol{G}$	At	
_	+	_	Any temp	
exothermic	more disorder	ALWAYS spont.		
+	_	+	Any temp	
endothermic	less disorder	NEVER spont.		
_	-	_	Low Temp	
exothermic	less disorder	spont.		
_	_	+	High Temp	
exothermic	less disorder	NOT spont.		
+	+	_	High Temp	
endothermic	more disorder	spont.		
+	+	+	Low Temp	
endothermic	more disorder	NOT spont.		

Gibbs Mental Math

$\Delta H_{\rm sys}$ -T $\Delta S_{\rm sys}$ = $\Delta G_{\rm sys}$				
∆H	Δ\$	ΔG	At	
- exothermic	+ more disorder	ALWAYS spont.	Any temp	
+ endothermic	ess disorder	+ NEVER spont.	Any temp	
– exothermic	– less disorder	spont.	Low Temp	
- exothermic	– less disorder	+ NOT spont.	High Temp	
+ endothermic	+ more disorder	spont.	High Temp	
+ endothermic	+ more disorder	+ NOT spont.	Low Temp	