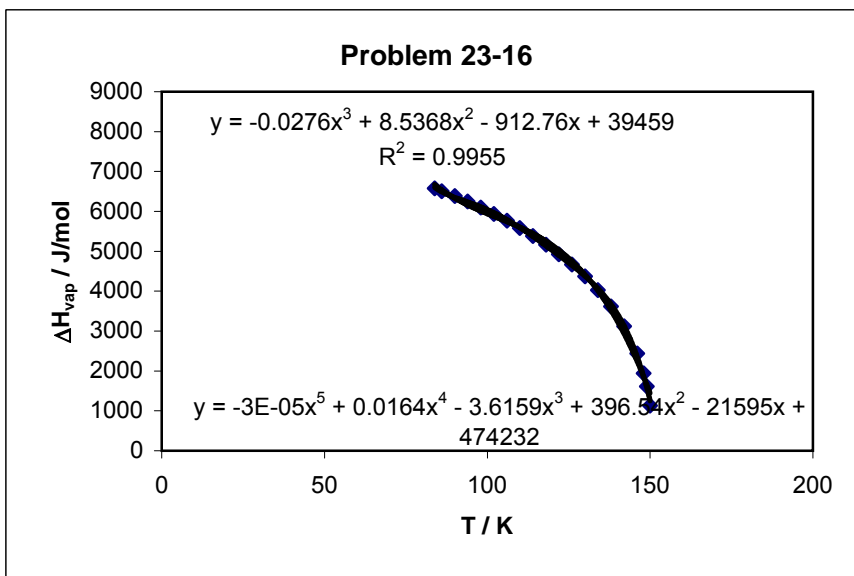
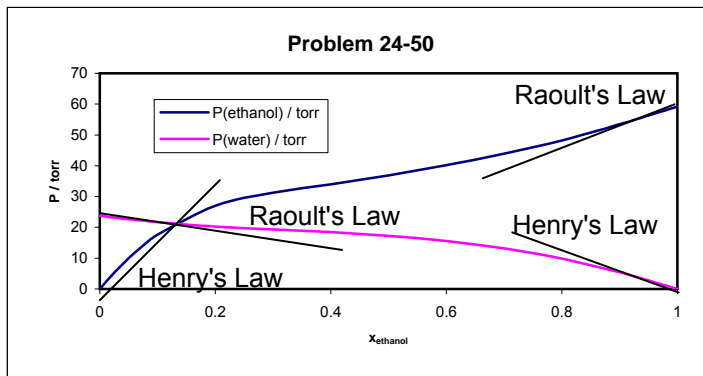


Problem 23-16

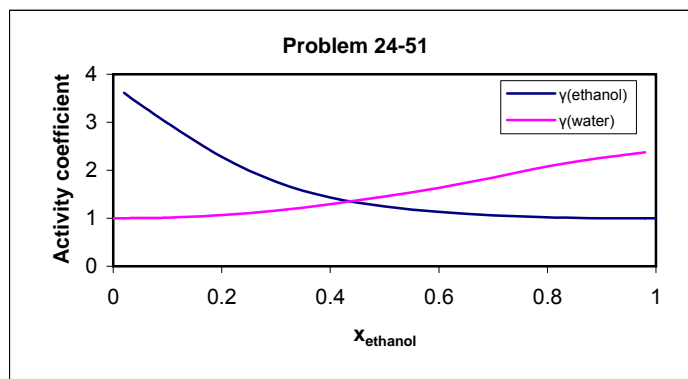
T	Dhvap
83.8	6573.8
86	6508.4
90	6381.8
94	6245.2
98	6097.7
102	5938.8
106	5767.6
110	5583
114	5383.5
118	5166.5
122	4928.7
126	4665
130	4367.7
134	4024.7
138	3618.8
142	3118.2
146	2436.3
148	1944.5
149	1610.2
150	1131.5



x(ethanol)	P(ethanol) / torr	P(water) / torr
0	0	23.78
0.02	4.28	23.31
0.05	9.96	22.67
0.08	14.84	22.07
0.1	17.65	21.7
0.2	27.02	20.25
0.3	31.23	19.34
0.4	33.93	18.5
0.5	36.86	17.29
0.6	40.23	15.53
0.7	43.94	13.16
0.8	48.24	9.89
0.9	53.45	5.38
0.93	55.14	3.83
0.96	56.87	2.23
0.98	58.02	1.13
1	59.2	0



x(ethanol)	$\gamma$ (ethanol)	$\gamma$ (water)
0		1
0.02	3.614864865	1.000240298
0.05	3.364864865	1.003496968
0.08	3.133445946	1.008794383
0.1	2.981418919	1.013923932
0.2	2.282094595	1.064444912
0.3	1.758445946	1.161840682
0.4	1.43285473	1.296607794
0.5	1.24527027	1.454163162
0.6	1.132601351	1.632674516
0.7	1.060328185	1.844687412
0.8	1.018581081	2.079478553
0.9	1.003190691	2.262405383
0.93	1.001525719	2.300853058
0.96	1.000668637	2.344407065
0.98	1.000068946	2.375946173
1	1	1



P HCl	m HCl	m <sup>2</sup>
0.147	1.81	3.2761
0.238	2.32	5.3824
0.443	3.19	10.1761
0.663	3.93	15.4449
0.851	4.47	19.9809
1.08	5.06	25.6036
1.622	6.25	39.0625
1.929	6.84	46.7856
2.083	7.12	50.6944

