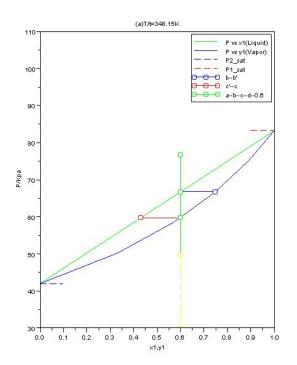
Example 10.1

Result



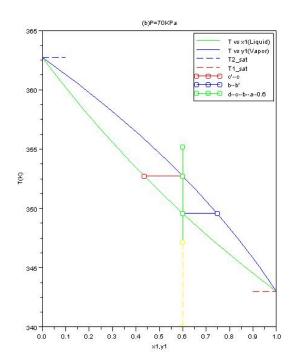


Figure 10.1 Pxy Raoults law

Explanations Of graph

х1	y1	P/PKa
0.	0.	41.98
0.2	0.3313	50.23
0.4	0.5692	58.47
0.6	0.7483	66.72
0.8	0.888	74.96
1.	1.	83.21

This is the liquid-phase composition at point c'

x1 y1 T/t(K/C)

1. 1. 342.99

0.738 0.849 347.15

0.516 0.676 351.15

0.318 0.474 355.15

0.142 0.239 359.15

0. 0. 362.73

Hence by iteration Temp(Temp at b) at x1=0.6 is

349.57

Κ

Hence by iteration P1_sat at x1=0.6 is

87.17

KPa

Composition of Vapor(b') at x1=0.6

0.7472

Hence by iteration Temp(Temp at b) at y1=0.6 is

352.73

Κ

Hence by iteration P1_sat at y1=0.6 is

96.54

KPa

Composition of liquid(c`) at y1=0.6

0.4351