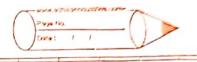


No.	Faguitin Estin: / /
(2A)	Problem Statement:
: 1, -	Using false position method, estimate molar volume of ethyl alcohol at given temperature and pressure.
	known $a = 12.00$ $b = 0.08407$ Zempixical constants
	t = 400k temperature p = 2.5 atm prussure R = 0.0821 universal gas constent v = molar volume,
	equation
Sol?:	$\left(\frac{p+a}{v^2}\right)(v-b) = Rt$
	$V = \begin{cases} Rt \\ p_{+} & q_{\sqrt{2}} \end{cases}$ $V = 0.0821 \times 400 + 0.08409$ $2.5 + 12.02/\sqrt{2}$
	$= \frac{32.84 v^2}{2.5 v^2 + 12.02}$ $= \frac{32.84 v^2}{2.5 v^2 + 12.02}$ $= \frac{32.84 v^2}{2.5 v^2 + 12.02} + \frac{1.0105214}{2.502}$
	$v = 33.050175 v^2 + 1.0105214$ $2.5v^2 + 12.00$
	$\int C v = 2.5 v_3 + 33.050 \mu L v_5 = 15.05 v + 1.010 L 514$



so with the help of code we can find P(v)-70 ie v= 12 and, P(v) <0 / = 13 according to formula of false - Position method: V, = V, - fcv, > [Vu - V,] f(vu) - f(v_e) value of us when f (vr) is closed to zero and point that is infusction of a with fuction is 12.848304885459296 and with ideal gas low we have, 13.1360