AIR IN ROOM IS "RELATIVELY STAGNANT"
TEA IS ESSENTIALLY WATER

$$\frac{C_{A(c_1Q)}(L_1^2-L_0^2)}{2}=\frac{-PD_{AB}ln(1-\gamma_{A0})t}{R7}$$

$$7 = 298K$$
 $R = 62.36 L mm Hg/mol K$
 $p^{*}(259) = 23.7 mm Hg$ (CH. 1 EON 1.25)

 $50 \text{ YAS} = \frac{23.7}{760} = 0.0313$

$$\gamma_{AL} = \frac{(0.5)(23.7)}{(760)} = 0.0156$$

APPROPRIATE EQUATION

15:

$$\frac{C_{A(LQ)}(L_1^2-L_0^2)}{2}=\frac{-PD_{AB}\ln(\frac{1-\gamma_{AO}}{1-\gamma_{AL}})t}{R7}$$

DIFFERENCE IS NOTED IN RED

PUTTING VALUES INTO EQUATION (ONLY NEW ONE IS YAL)

17 IS HIGHLY UNLIKELY THAT THE ROOM WOULD REMAIN AT
THE PERFECT LEVEL OF "STAGNANTNESS" FOR A MONTH OR MORE
FOR THE MODEL TO BE GOOD, HOPEFULLY, THE POLICE HAVE
SOME STHER EVIDENCE!