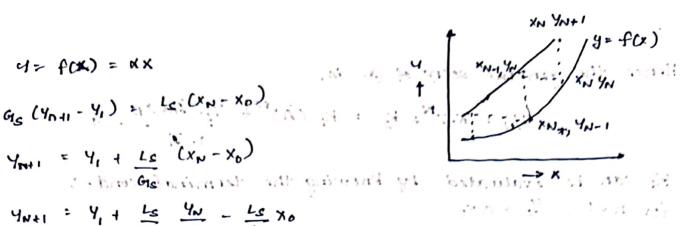
Let 
$$\frac{L_S}{G_{1S}} = \overline{A} \Rightarrow \frac{L_{S_1}}{G_{1c}} \times \overline{A}$$

(2) Considering the eqn: 
$$Y_1 - \overline{A} Y_N = Y_1 - \overline{A} X_0 + \overline{A}$$

where, 
$$A = \frac{L_{c}}{G_{c}\alpha}$$
 Absorption factor

Assuming a solve of the form, 4N = k1 2 and substituting in ear O we light, and no oil prider has prigrangered.

Now, since the eqn: @ is non-homogeneous we need to find the particular egg soln; which is a const. Assuming YN = K2 (constant) as the particular solve and substituting is @



Hence the general sour of @ is,

$$44N = K_1 Z^{N} + K_2 = K_1 (\overline{A})^{N+1} Y_1 - \overline{A} \times X_N - 4$$

Ki can be evaluated by knowing the terminal cond:

$$K_1 = KX_0 - Y_1 - \overline{A}KX_0 = \frac{\alpha x_0 - Y_1}{1 - \overline{A}} - \bigcirc$$

Now, substituting the value of ki, eqn: 6

$$4N = \left[\frac{\alpha x_0 - 41}{1 - A}\right] \left(\frac{A}{A}\right)^n + \frac{41 - A\alpha x_0}{1 - A} = 6$$

To determine the total no of ideal plates, we put n= N+1 and YN= YN+1

$$\overline{A}^{N} = \frac{1}{2} \frac$$

Rearranging and taking log on both sides,

$$N = log \left[ \frac{Y_{N+1} - \alpha X_0}{Y_1 - \alpha X_0} \right) \left( \frac{1}{A} \right) + \frac{1}{A} \right]$$

intervental there is a strong Arely trees interior and hard

La Kresner's Eqn: