WA.

$$|y| = \frac{998}{2\mu} \left[1 - \left(\frac{2}{8} \right)^2 \right]$$

$$|y| = \frac{998}{2\mu}$$

$$|y| = \frac{998}{2\mu}$$

$$|x| = \frac{3 |x|}{99}$$

$$|x| = \frac{$$

$$\overline{lly} = \frac{fg.8}{3.4} = 0.0486 \text{ m/s}$$

$$k_{avg} = \frac{190}{3 \mu} = 0.0486 \text{ ms}$$

$$k_{avg} = 3.414 \frac{D_{AB}}{5} = 5.81 \times 10^{5} \text{ ms}$$

$$n_A = u_y \leq w d = k (C_A, -C_A) w dy$$

$$\overline{C_A} = u_y \leq w d = k (C_A, -C_A) = \overline{C_A}$$

$$0.5 = \frac{G_{AL}}{G_{Ai}} = 1 - e^{\frac{k_{avgL}}{k_{y} \varepsilon}}$$
(given)





$$\frac{\partial G}{\partial t} = D \frac{\partial G}{\partial x^2}$$

For the third part After 30 days

The value of x for which G = 3 x 10 kmol/m3 = CAD

$$\frac{2}{4} = 1 - exf\left(\frac{\pi}{\sqrt{4Dt}}\right)$$

$$=$$
) $ext(\frac{x}{\sqrt{40t}})=1$

From the table,

$$\frac{\chi}{\sqrt{40t}} = 3.0$$

$$=)$$
 $\chi = 0.384 \text{ m}$