Solution to Problem 1.1

FROM FICK'S LAW (EQ 3 IN CHAP 1)

$$q_{z} = -DA \frac{\partial C}{\partial Z} \approx -DA \frac{C(z=loem) - C(z=Gem)}{(10 - 0)cm}$$

$$= -(loc_m^2 s^{-1})(1cm^2) \frac{0 - loc_m^3}{loc_m}$$

$$= + lo^4 g/s$$

$$2 + v = -DRECTION IS UPWARD$$