Moments about the anchor point

$$B\left[\frac{1}{2}\cos\theta\right] - w \frac{2.75}{2}\cos\theta = 0$$

$$\Rightarrow$$
 {49050 $l^2 - 1.48 \times 10^9$ } (050 = 0

Sitter
$$\theta = 90^{\circ}$$
, which is not permissible.

$$\mathcal{L} = \sqrt{\frac{1.48 \times 109^{\circ}}{49050}} = 173 \, \text{Cm},$$

$$\Rightarrow \theta = 8 \sin^{-1} \left(\frac{60}{173} \right) = 20.3$$

Temperature T at any 2 would be

$$\frac{T-T_B}{T_T-T_B}=\frac{2}{H}$$

=)
$$(T_{7}-T_{8})=(T_{7}-T_{8})\frac{2}{H}$$

Since
$$p(T) = p(T_B) [1 - \beta(T-T_B)]$$

$$= g(T_8) \left[1 - \beta \left(T_7 - T_8 \right) \frac{2}{H} \right]$$

B.1 Tr
$$A$$

Temperature T at any z would be

$$\frac{T-T_B}{T_T-T_B} = \frac{z}{H}$$

$$\Rightarrow (T = T_B) = (T_T-T_B)\frac{z}{H}$$

$$\Rightarrow f(T) = f(T_B)\left[1 - f(T_T-T_B)\right]$$

$$\Rightarrow f(T_B)\left[1 - f(T_T-T_B)\right]$$

For uniform temperature

Put Ty = 88 C +243 る=60と+273 B = 0.0004 P(Ta) = 983.21 kg/m3