

$$k_s = 1ab [w/m.k]$$

$$k_f = 0.ab [w/m.k]$$

$$\frac{T_{S}-T}{T_{S}-T_{\infty}} = \frac{sin}{\left(\frac{\pi y}{0.0ab}\right)}$$

$$\frac{T_S - T}{T_S - 7\infty} = sin\left(\frac{T_1 Y}{\sigma \cdot \sigma q b}\right) = 0.99$$

=>
$$y = \delta t = \frac{(0.09b)}{\pi} \times \sin^{-1}(0.99)$$

$$h = \frac{-kf}{Ts - Too} \frac{\sqrt{y-0}}{\sqrt{y-0}}$$

$$T(y) = \sin\left(\frac{\pi y}{\sigma \cdot oqb}\right) \times (7\infty - Ts) + Ts$$

$$\frac{\partial T/y}{\partial y} = \frac{\pi}{0.095} \cos\left(\frac{\pi y}{0.095}\right) (Ton-15)$$

$$\frac{\partial T}{\partial y} = \frac{\pi}{0.09b} (0)(0)(700-75)$$

$$Thus, h = \frac{(40.9b) \times \frac{\pi}{0.09b} (700-75)}{(750-75)}$$

$$h = \frac{(70.9b) \times \frac{\pi}{0.09b} [\pi W/m^2 K]}{(700-75)}$$

$$h = \frac{hL}{kf} = \frac{0.9b \times \pi}{0.9b} \times \frac{h}{0.9b}$$

$$\frac{h}{0.9b} \times \frac{h}{0.9b} \times \frac{h}{0.9b}$$