=35 W/m2 K Prob 3 . 130 pintin $\frac{1}{16} = 100^{\circ} \text{C} = \frac{237 \text{W/mk}}{16} = .0025_{\text{m}}$ To= 30°C i = 2; 4 $\Theta_{i-1} - \left(2 + m^2 dx^2\right)\Theta_i + \Theta_{i+1} = 0$ $\frac{1}{2} = 80$ 1 = 8 $\frac{20}{20} - (2 + m^2 dx^2) \theta_0 = 0$ $20 + (2 + m^2 dx^2) \theta_5 = 0$

