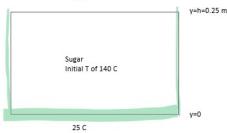
Simplest use



at = k (art)

T(y,0) = 14n

Uniform temperature of 140 C at t=0

Room temperature of 25 C, glass underneath pot is also 25 Heat transfer only in y direction

$$\frac{\partial^{2}T}{\partial y^{2}} = \frac{T_{i+1}^{0} - 2T_{i}^{1} + T_{i-1}^{0}}{\Delta y^{2}}$$

$$\frac{\partial^{2}T}{\partial t} = \frac{T_{i+1}^{0} - 2T_{i}^{1} + T_{i-1}^{0}}{\Delta t}$$

$$\frac{T_{i}^{0} + T_{i}^{0} - T_{i}^{0}}{\Delta t} = \frac{L}{34} \frac{T_{i+1}^{0} - 2T_{i}^{0} + T_{i-1}^{0}}{\Delta y^{2}}$$

Python

$$T(0,t) = 25$$

$$T(h,t) = 25$$

$$Let \theta = t - 25, \alpha = \frac{k}{3^{2}} = 0.145/11.57842^{2}1435.9)=6.06.5$$

$$\Theta(y_{1}0) = 115$$

$$\Theta(0,t) = 0$$

$$\Theta(h,t) = 0$$

$$\Theta(h,t) = 0$$

$$\Theta(h,t) = 0 = e^{-\alpha \alpha^{2}t} + |A| = 0$$

$$\Theta(y_{1}t) = B' e^{-\alpha \alpha^{2}t} + |Shax|$$

$$\Theta(y_{1}t) = B' e^{-\alpha \alpha^{2}t} + |Sin dy|$$

$$O(y_{1}t) = B' e^{-\alpha \alpha^{2}t} + |Sin dy|$$

$$O(y_{$$