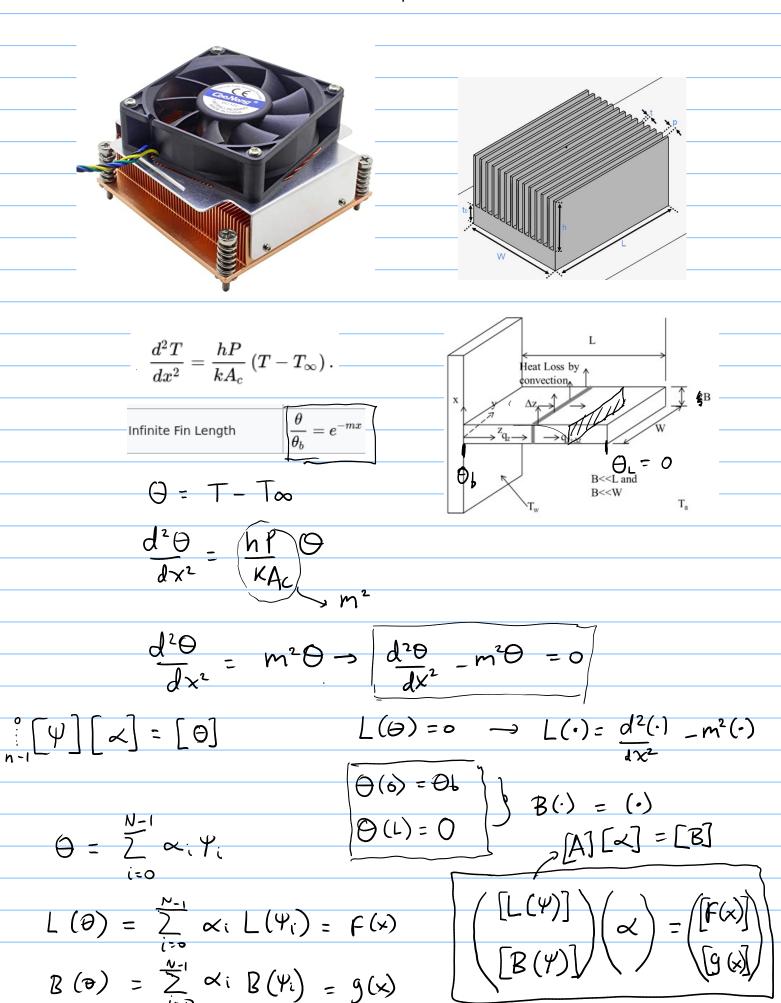
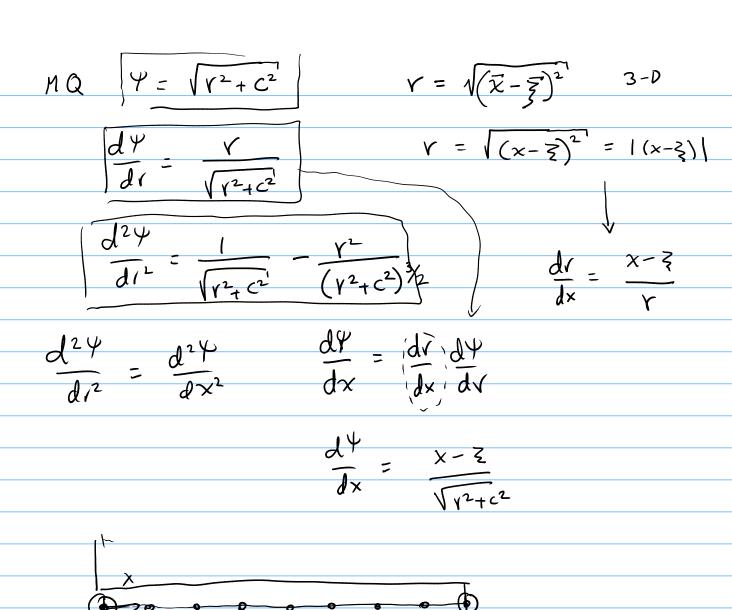
Problema 1: Transferencia de calor en supericies extendidas





x=L

X=0

## Problema 2:

$$-x^2y'' + xy' + y = 0$$
,  $y(1) = 0$ ,  $y(2) = 0.638961$ 

Solución analítica  $y=\sin(\ln x)$  .

$$L(y) = x^{2} \frac{d^{2}y}{dx^{2}} + x \frac{dy}{dx} + y = 0$$

$$B(y) = y = \begin{cases} 0, & x = 1 \\ 0.638961, & x = 2 \end{cases}$$

$$L(\cdot) = \chi^2 \frac{d^2(\cdot)}{dx^2} + \chi \frac{d(\cdot)}{dx} + (\cdot)$$

$$B(\cdot) = (\cdot)$$