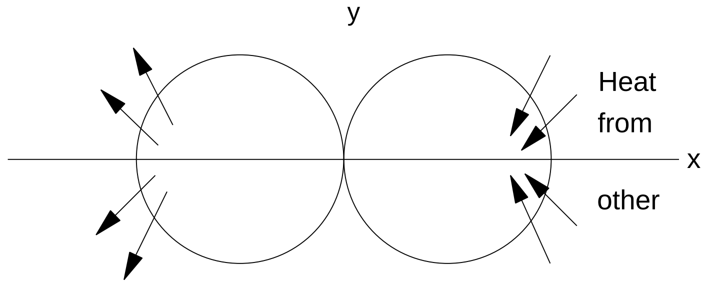

y
x
Heat
from
other

In these coordinates, the surface of the (first) cylinder is given by $\xi = 1$. The boundary conditions become

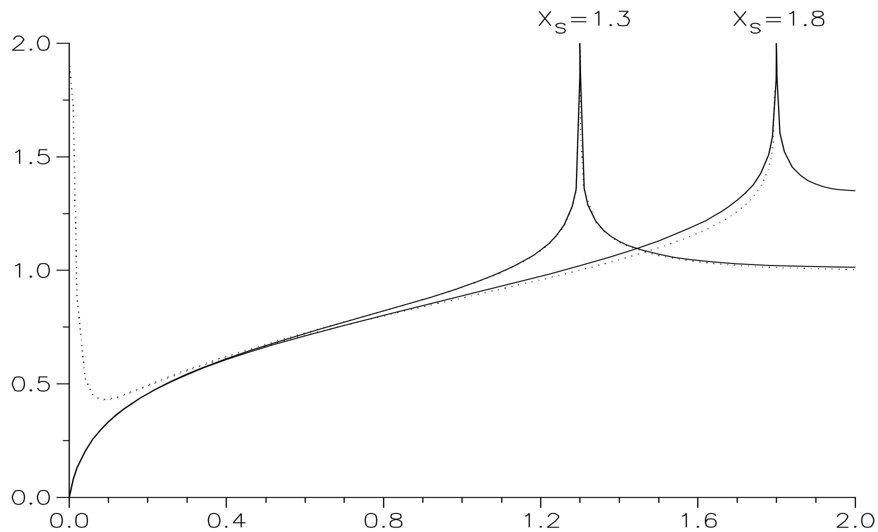
$$T(\xi = 1-, \eta) = T(\xi = 1+, \eta) \ , \tag{3}$$

$$\left.\frac{\partial T}{\partial \xi}\right|_{\xi=1-} = \alpha^{-1} \left.\frac{\partial T}{\partial n}\right|_{\xi=1+} . \tag{4}$$

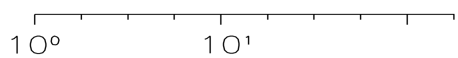
It is easily verified that inside the cylinder, $\xi \geq 1$, the solution is

$$T(\xi, \eta) = -\frac{q}{\alpha} \ln \ n \ dn \geq$$

$$T(\xi, \eta) = -$$



X_S=1.3
X_S=1.8
2.0
1.5
1.0
0.5
0.0
0.0
0.4
0.8
1.2
1.6
2.0


10^0
10^1