INTRODUCTION - RECAP 1.1

3 modes of HT:
- conduction
- convection
- radiation

Conduction rate equation:

\[ \dot{q}_x = -k \frac{\partial T}{\partial x} \]

- \( k \): thermal conductivity
- \( \dot{q}_x \): heat flux (W/m²)
- \( \frac{\partial T}{\partial x} \): temp. gradient along x
  \( (\frac{1}{L}) \)

Convection:
- natural
- external