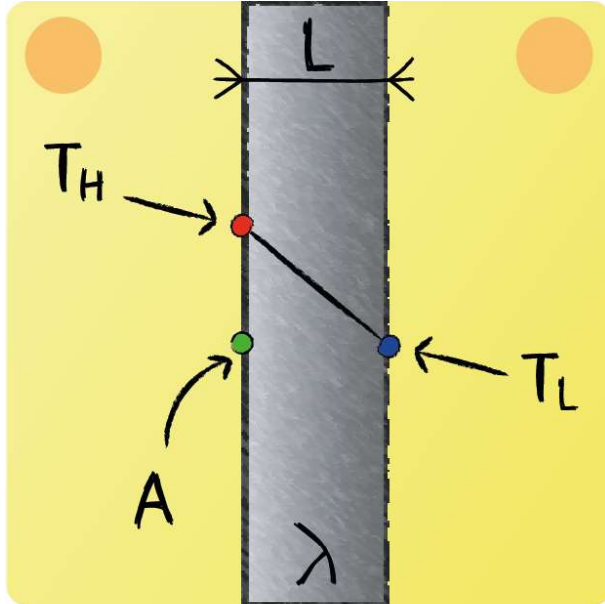# Lecture 1 - Question 5

What is the alternative name for the equation for heat conduction?

The linear correlation between temperature gradient and area specific heat flux was discovered by Fourier in 1822 and consequently is refered to as Fourier's law. A general form is given by:

$$\dot{q}'' = -\lambda \frac{\partial T}{\partial n}$$

with $\frac{\partial T}{\partial n}$ representing the temperature gradient normal to a cross section of uniform temperature.