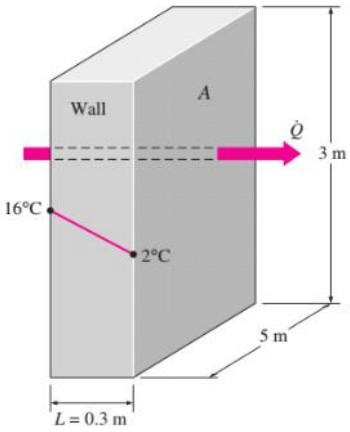
# Example 0

Find the rate of heat trasfer through the wall if k=0.9 W/m C




$$\dot{Q} = kA\frac{\Delta T}{L} = 0.9 * 15 * \frac{16-2}{0.3} = 630\ W$$

Let's solve it the harder way !!!

$$R_{wall} = \frac{L}{kA} = \frac{0.3}{0.9 * 15} = 0.0222\ °C/W$$

$$\dot{Q} = \frac{\Delta T}{R_{Wall}} = \frac{14}{0.0222}$$

$$= 630.6\ W\ The\ difference\ is\ only\ because\ of\ rounding$$