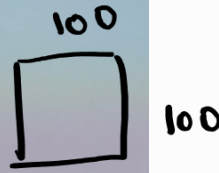


Quick exercise

- The surface tension of water at 25 °C is 0.072 N m⁻¹. How much work is required to form a surface of 100 m by 100 m?

w?



25 °C
↓
298 K

$T = 0.072 \text{ N m}^{-1}$

$$\Delta w = \gamma \Delta A$$

$$= 0.072 \text{ N m}^{-1} \times 100 \text{ m} \times 100 \text{ m}$$

$$= 720 \text{ J}$$