

The gas is kept at a temperature of 300 K in a sealed vessel of volume $4.2 \times 10^{-3} \text{ m}^3$. It behaves like an ideal gas in these conditions.

(b) Show that the pressure in this gas is $2.5 \times 10^5 \text{ Pa}$.

[3]

3 A mass of 0.80 kg of water is heated using a 1500 W heater.

The specific thermal capacity of water is $4200 \text{ J kg}^{-1} \text{ K}^{-1}$.

Calculate the initial rate of temperature change of the water.

rate of temperature change = K s^{-1} [2]

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