

# Chapter 2.5 WACE Q

## Question 1

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(3 marks)

A solar hot water system collects solar energy at the rate of  $800 \text{ J s}^{-1}$ . It needs  $1.68 \times 10^7 \text{ J}$  of energy to heat the water it contains. Calculate how many hours it would take to heat this water. Ignore any heat lost to the surroundings.