

Question:

The efficiency of heat engine is 50% if the temperature of cold reservoir is 300k find the temperature of the hot reservoir?

Solution:

Heat engine working on Carnot cycle has the efficiency $\eta = 1 - \frac{T_c}{T_h}$, what means that

$$T_h = 2T_c = 600(K).$$

The answer:

$$T_h = 2T_c = 600K$$

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