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(b) The work input (given by torque \times angular rotation in radians) to the gas from the fan. (c) The final temperature of the gas. (Explain briefly why the temperature continues to rise for a short time after the fan has stopped rotating.) (d) The increase in entropy of the gas. Solution $V = 0.2 \text{ m}^3$ $\gamma = 1.45$ $m = 18 \text{ kg / kmol}$ $T_1 = 320 \text{ K}$ $P_1 = 9 \text{ bar}$

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