NAME:_____ Quiz 6

Entropy changes of the Otto cycle considering an ideal monatomic gas:

1. $\Delta S_{1\to 2} =$

2. $\Delta S_{3\to 4} =$

For an ideal monatomic gas, $dU = \frac{3}{2} nRdT = dw_{rev} + dq_{rev}$

3. For an ideal monatomic gas in the Otto cycle, define dq_{rev} for $2 \to 3$ in terms of numbers, n, R, and dT.

4. $\Delta S_{2\to 3} =$

5. $\Delta S_{4\to 1} =$

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