

Reversible and irreversible work



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Using the result in the last problem for irreversible work, let's see show that the reversible work of expansion is larger than the irreversible work. Use three different conditions to test. Assume 1 mol of gas (to make it easy). Let's assume an initial volume of $V_1 = 1$ L and then calculate both w_{irr} and w_{rev} for three final volumes.
A. $V_2 = 2$ L B. $V_2 = 5$ L and C. $V_2 = 10$ L