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A QUICK GUIDE

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temperature remains constant  $\Delta t = 0$  since internal energy depends on the temperature  $\Delta u = 0$  from first law of thermodynamics

$\Delta u = \Delta q - \Delta w$  since  $\Delta u = 0$   $\Delta q = \Delta w$  also  $p, v$  nrt as  $t$  is constant  $p, v$