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: Process 1 : Pressure (P) = 20 N/m<sup>2</sup>.  
Initial volume (V<sub>1</sub>) = 10 liter = 10 dm<sup>3</sup>  
= 10 x 10<sup>-3</sup> m<sup>3</sup>

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processes, and thus the first law of thermodynamics becomes:  $U + A = 0$ ; (1) where  $A$  is the work done by gas, and  $U$  is its internal energy. Using  $A = P \Delta V$  and  $U = C_V T$  we obtain:  $C_V \Delta T = -P \Delta V$

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