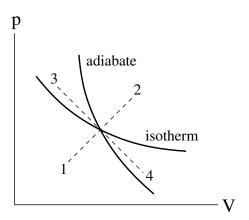
[tex26] Positive and negative heat capacities

The p-V diagram shows an *isotherm* and an *adiabate* for the classical ideal gas. Show that a quasistatic process of the type $1 \to 2$ is characterized by a *positive* heat capacity and a process of the type $3 \to 4$ by a *negative* heat capacity.



Solution: