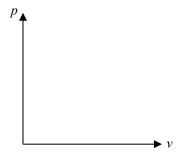


Polytropic Processes

Polytropic Processes

A polytropic process is one in which $pV^n = \text{constant}$, where *n* is a constant.



- if n = 0, then the process is isobaric
- if $n = \pm \infty$, then the process is isometric
- if n = 1 and the gas is ideal, then the process is isothermal
- if n = k and the gas is ideal, then the process is isentropic

The (pressure) work done by the gas in a polytropic process:

gas