

Example 3.3

Result

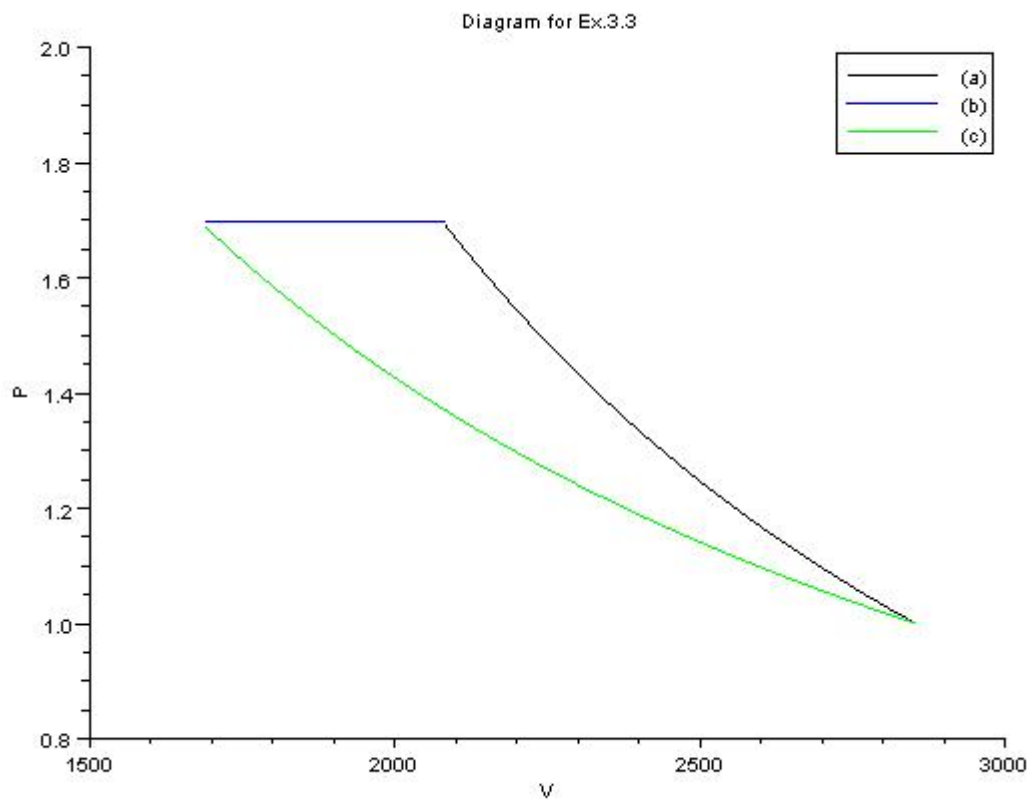


Figure 3.3 PV Diagram Process (b)

(a)Adiabatic Compression

(b)Cooled form 150°C to 70°C at Const pressure

(c)Expanded isothermally to original state

Mechanically reversible

del U	del H	Q	W
998.	1663.	0.	998.
- 998.	- 1663.	-1663.	665.
0.	0.	1495	-1495.

Sum

0.	0.	- 168.	168.
----	----	--------	------

Irreversible

del U	del H	Q	W
998.	1663.	-250.	1248.
- 998.	-1663.	-1829.	831.
0.	0.	1196.	-1196.

Sum

0.	0.	- 883.	883.
----	----	--------	------