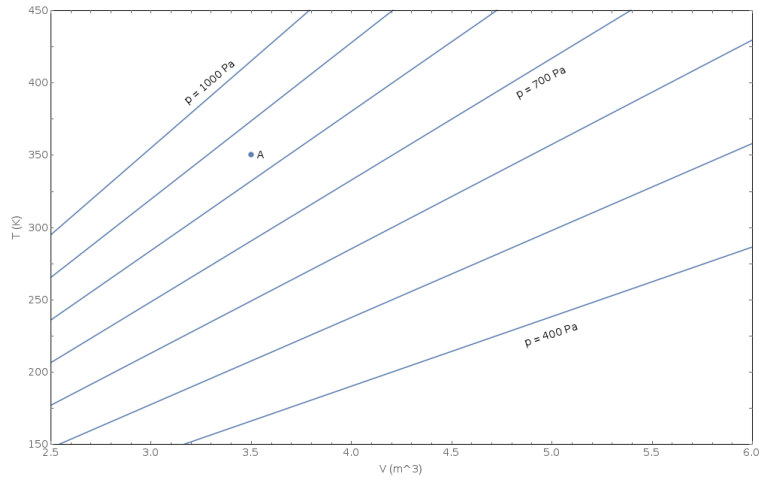
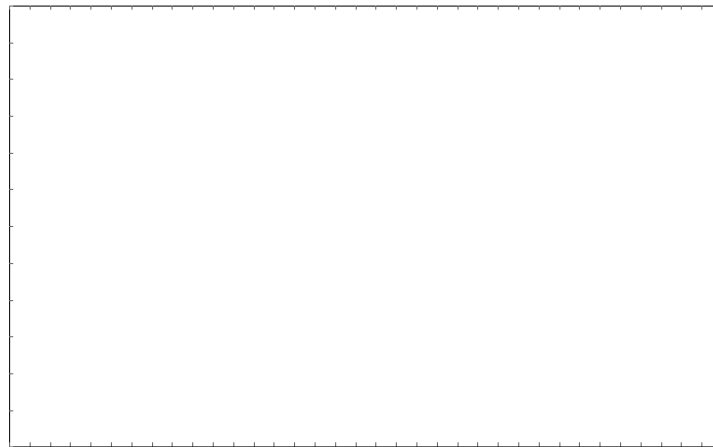


1 Translating Contours

Consider the diagram of T vs V for several different constant values of p .



- (a) Translate this diagram to a p vs V w/ constant T graph, including the point A . Complete your graph by hand and make a fairly accurate sketch by printing out the attached grid or in some other way making nice square axes with appropriate tick marks.



- (b) Are the lines that you drew straight or curved? What feature of the TV graph would have to change to change this result?
- (c) Sketch the line of constant temperature that passes through the point A .
- (d) What are the values of all the thermodynamic variables associated with the point A ?