Computational Assignment

1. [**Due 27th March 2021, 2pm**] You are given that ..... equation-of-state can accurately obtain the PV diagram of ..... Using MATLAB/Excel obtain the PV diagram of this system. A sample PV diagram is shown below for your reference. Also obtain the critical temperature of your system from the MATLAB/Excel program. Submit a report detailing your equation-of-state, source of data for the system and your program details; along with the original MATLAB/OCTAVE/PYTHON/Excel files (submission instructions will be sent later). Also, compare with experimental results. [HINT: You may use 'roots' or 'fzero' functions in Matlab to obtain roots of your polynomial equation.]

[NB: Your system and equation-of-state will be emailed to you separately.]

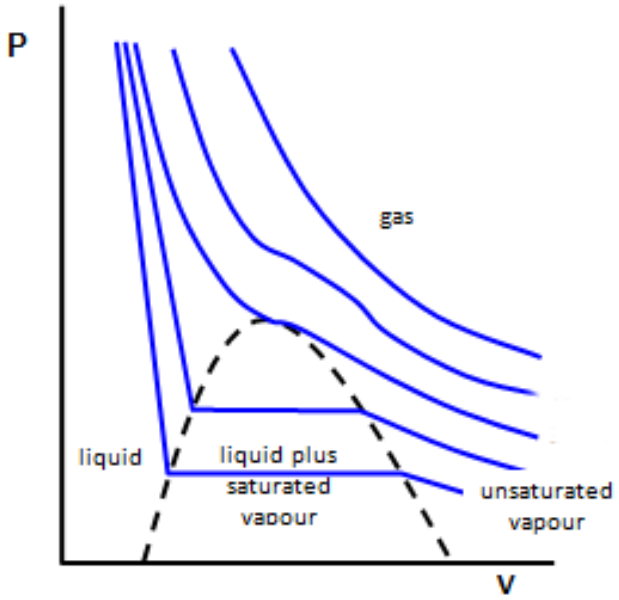

Figure 1: The figure used is in public domain.