Q6
(a) Sketch a pressure -specific volume diagram for a pure substance which contracts on freezing , showing the lines of constant temperature. Label the phase regions and indicate clearly the:
(i) saturated liquid line.
(ii) saturated vapour line.
(iii) critical point.
(iv) triple point.
(b) Sketch a second diagram choosing pressure and temperature as the axis such that the triple point appears as a point. Label the solid, vapour and liquid regions.
(c) Add a dotted line to the $\mathrm{p}-\mathrm{T}$ diagram to show the behaviour of substance that expands on freezing.



