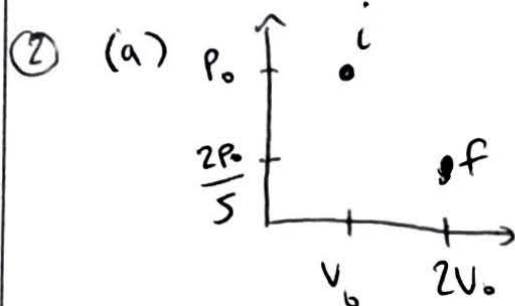
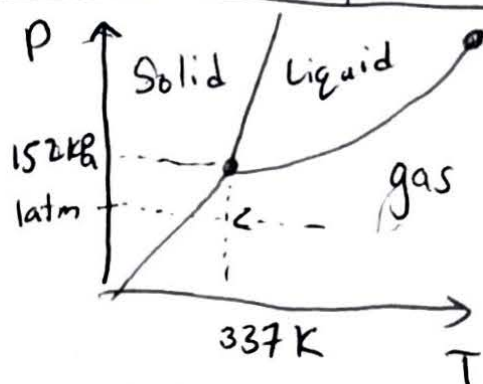


# Reading 1/28

NAME	
DATE	REVISION DATE

① gas  $\rightarrow$  solid ("deposition")

The triple point is above atmospheric pressure so there is no liquid phase @ 1 atm



(b) ①  $p_0 V_0 = n R T_0$   
 ②  $p_f V_f = n R T_f$   
 $\Rightarrow T_f = \left( \frac{p_f V_f}{p_0 V_0} \right) T_0$   
 $= [(0.4)(2)] (340 \text{ K})$   
 $= 272 \text{ K} = -1^\circ \text{C}$

(c) Irreversible processes can't be represented on a pV diagram (no path  $i \rightarrow f$  exists)  
 See "Quasi-Static Processes" on pg. 503

- ③ (a) horizontal line ... isobaric process [const.  $P$ ]  
 (b) vertical line ... isochoric process [const.  $V$ ]  
 (c) hyperbola ... isothermal process [const.  $T$ ]