$$45 = \frac{6-32}{9}$$
, we get $\frac{T}{5} = \frac{7-32}{9}$

or
$$T = -\frac{160}{4} = -40^{\circ}$$
 (unit can be both).

2. If
$$F=32$$
, then $C=0e$
if $F=0$, then $C=-\frac{5\times32}{9}=-17.8e$
So"I" was the correct line.

3.
$$T = 100 \frac{\rho_T - \rho_0}{\rho_{100} - \rho_0} = 100 \frac{100 - 80}{109.3 - 80}$$

$$= \frac{20\times100}{29.3} = 68.26^{\circ}$$

4.
$$T_1 V_1^{\gamma - 1} = T_2 V_2^{\gamma - 1}$$

$$T_2 = T_1 \left(\frac{V_1}{V_2}\right)^{\gamma - 1} = \left(273 + 20\right) \left(\frac{1}{1.4}\right)^{1.4 - 1}$$

$$= 256.1 \text{ K} = \left(256.1 - 273\right) \text{ e} = -16.9 \text{ e}$$

5.
$$\rho_1 V_1 = \rho_2 V_2$$
 "sothermal expansion,
$$\vdots \rho_2 = \rho_1 \frac{V_1}{V_2} = \frac{1}{2} \times 10^6$$

$$\rho_2 v_2^{\gamma'} = \rho_3 v_3^{\gamma'}$$
 adiabatie expansion"

$$: R_3 = P_2 \left(\frac{V_2}{V_3} \right)^{\gamma} = \frac{1}{2} \times 10^6 \times \left(\frac{1}{2} \right)^{1.4}$$