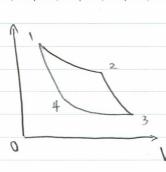
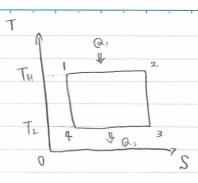
熟力学 H29





供给物類量也回2、机出的類量を回如的 (2)

(3) S23 × S4 は 断熱変化なので

$$\Delta S_{23} = \Delta S_{41} = 0$$

$$\Delta S_{23} = \Delta S_{41} = 0$$

$$\sharp L \quad dS = \frac{dQ}{T} = \frac{mR}{V} dV \quad \xi_1$$

$$\Delta S_{12} = S_2 - S_1 = mR \ln \frac{\sqrt{2}}{\sqrt{1}}$$

 $\Delta S_{34} = S_4 - S_3 = mR \ln \frac{\sqrt{4}}{\sqrt{3}}$

$$\Delta S_{34} = S_4 - S_3 = mR \ln \frac{V_4}{V_3}$$

1/h = 1 - 02 = 1 - TL

CH4: C+4H = 12+4*1 = 16[2]

$$C0_2 = C + 20 = 12 + 2 \times 16 = 44$$

$$0_2$$
: 20 = 2×16 = 32

$$N_2 = 2N = 2 \times 14 = 28$$

11

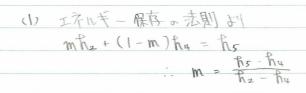
$$M_{\circ} = \frac{16 \times 0.1 + 32 \times 0.2 + 44 \times 0.3 + 26 \times 0.4}{32 \times 0.4}$$

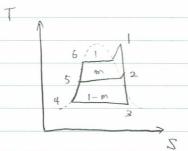
$$R_{\circ} = \frac{R}{m_{\circ}} = \frac{8.314}{32.4} = 0.256605$$

$$m = \frac{PV}{RT} = \frac{0.1 \times 10^3 \times 10}{0.257 \times 300} = 12.97017$$

(3)

[3]	h.	~	hs.		We	は	無視
L				F			111110





$$\eta_{th} = \frac{(h_1 - h_2) + (1 - m)(h_2 - h_3)}{h_1 - h_3}$$

