

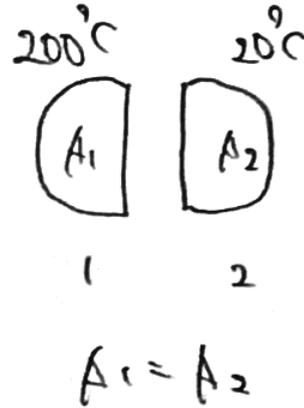
AG

$$(a) \underline{A_1 F_{12} = A_2 F_{21}}$$

$$(b) F_{12} = \underline{1}$$

$$\sum_j F_{ij} = (1 \text{ ずつ})$$

$$F_{11} = | -1 = 0$$



$$(c) Q_{12} = \sigma T_1^4 A_1 F_{12} = \sigma T_1^4 A_1$$

$$Q_{21} = \sigma T_2^4 A_2 F_{21} = \sigma T_2^4 A_2$$

正味の 1→2 の熱流量 Q は

$$Q = Q_{12} - Q_{21} = \sigma A_1 (T_1^4 - T_2^4)$$

$$= \underline{304} \text{ W}$$