

例題3 解答例

(1) 点A

$$V_A = 9.0 \times 10^9 \cdot \frac{+1.0 \times 10^{-8}}{0.10} = 90 \text{ V}$$

$$U_A = qV_A = 2.0 \times 10^{-6} \cdot 90 = 1.8 \times 10^{-4} \text{ J}$$

点B $V_B = 45 \text{ V}$ $U_B = qV_B = 9.0 \times 10^{-5} \text{ J}$

点C $V_C = 45 \text{ V}$ $U_C = qV_C = 9.0 \times 10^{-5} \text{ J}$

(2) CB: $W'_{C \rightarrow B} = U_B - U_C = 0 \text{ J}$

BA: $W'_{B \rightarrow A} = U_A - U_B = 9.0 \times 10^{-5} \text{ J}$

