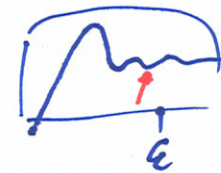
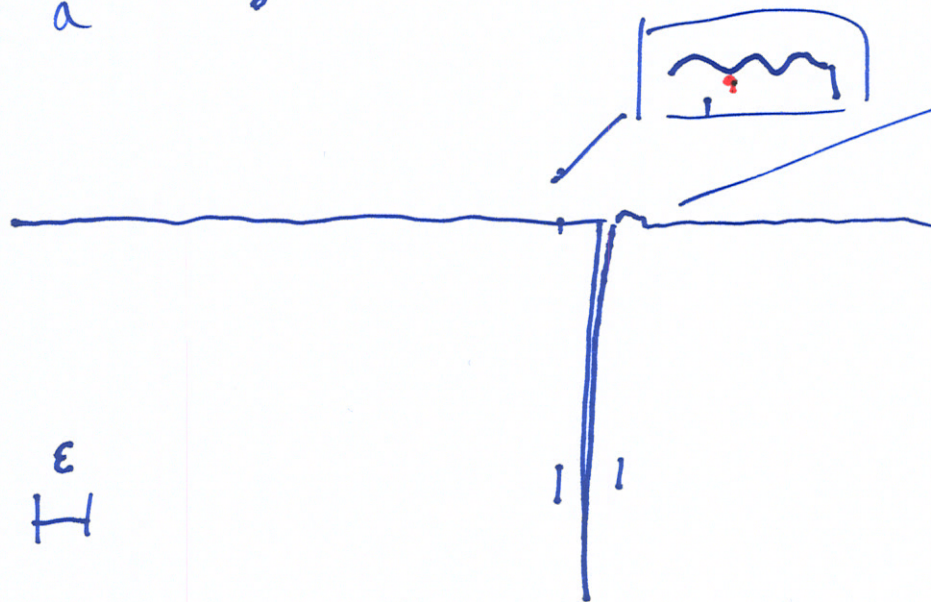
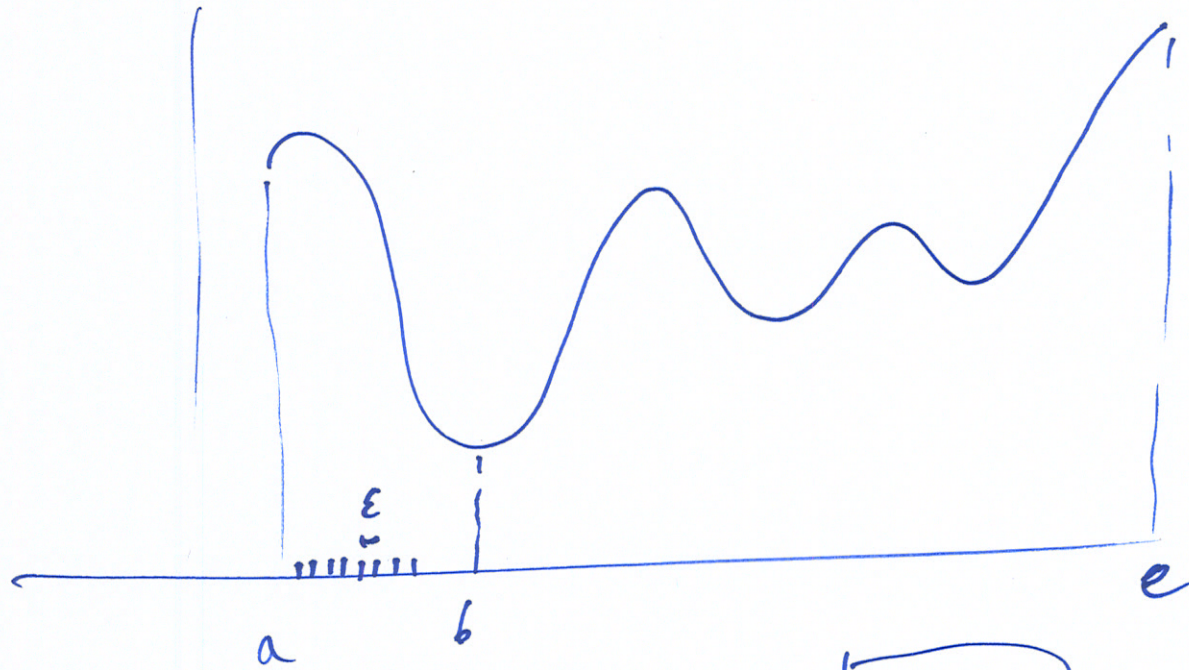


①

2024-10-15



ϵ is too large
 $\rightarrow$ may miss
 global optimum

②

$$\begin{array}{cccccc} 1 & 1 & 0 & 1 & 0 & 1 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 2^6 & 2^5 & 2^4 & 2^3 & 2^2 & 2^1 & 2^0 \end{array}$$

$$\begin{aligned} &\rightarrow 1 \cdot 2^0 + 0 \cdot 2^1 + 1 \cdot 2^2 + 0 \cdot 2^3 + 1 \cdot 2^4 + 1 \cdot 2^5 \\ &\rightarrow 1 + 4 + 16 + 32 \\ &\rightarrow 53 \end{aligned}$$

$$\begin{aligned} 11 &= 8 + 2 + 1 \\ &= 2^3 + 2^1 + 2^0 \\ &= 1011 \end{aligned}$$

