



数学I

第3章 2次関数

2次関数の最大・最小全移動

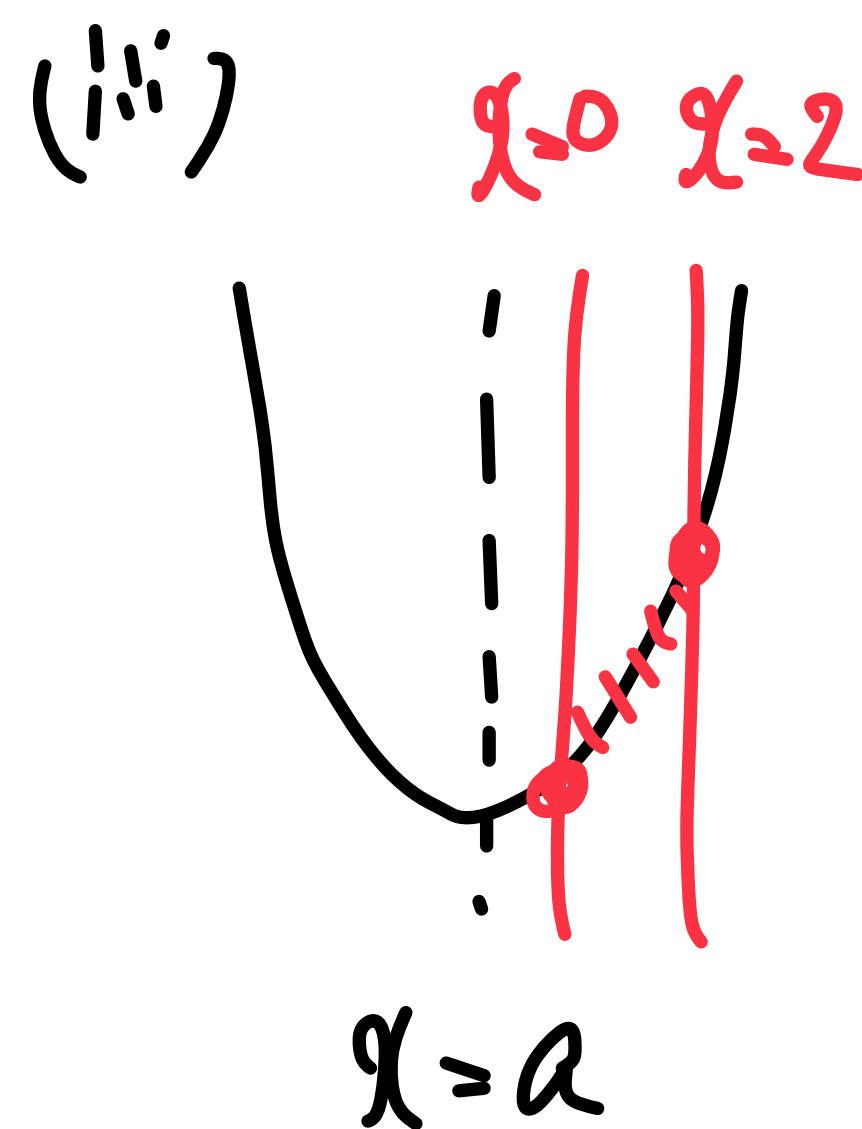
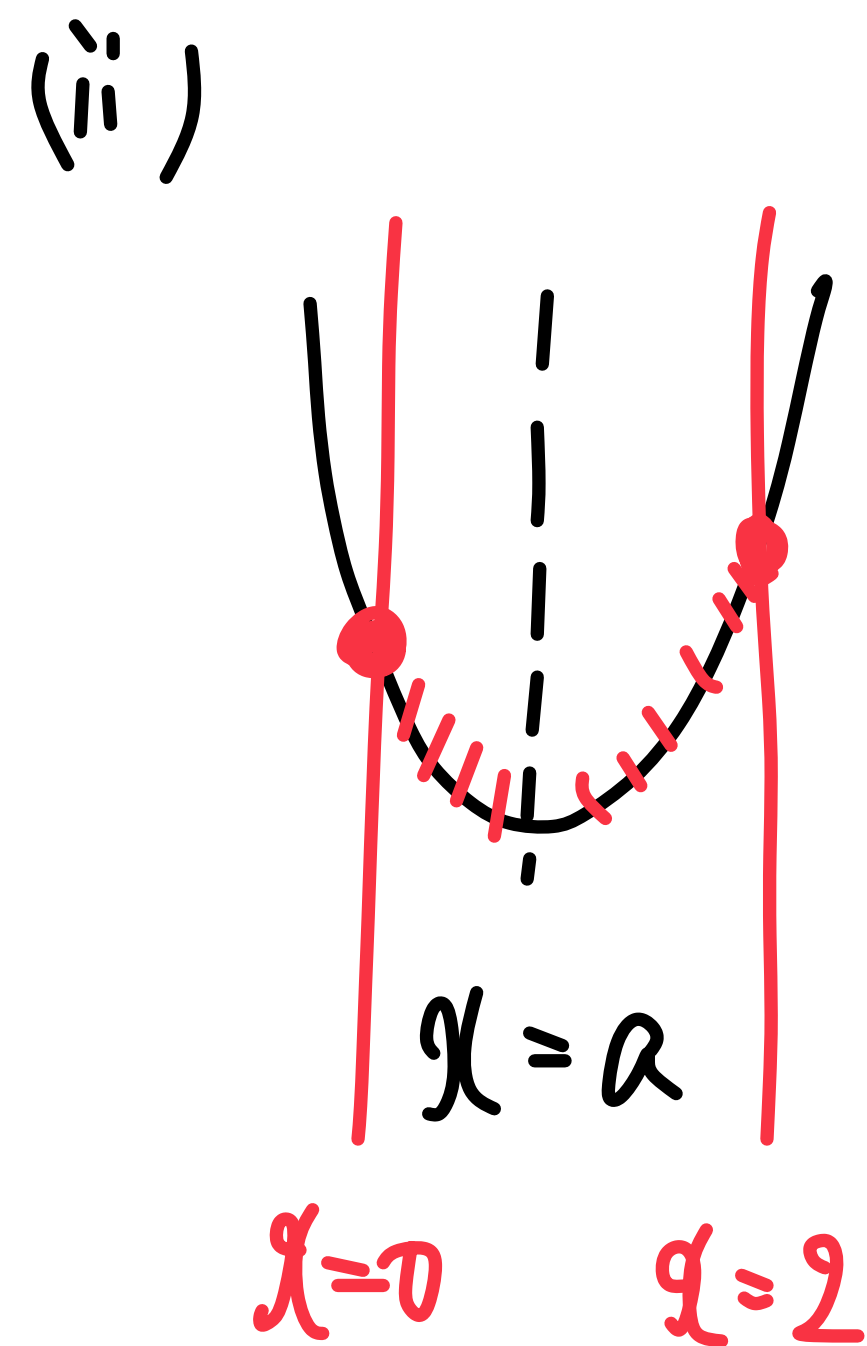
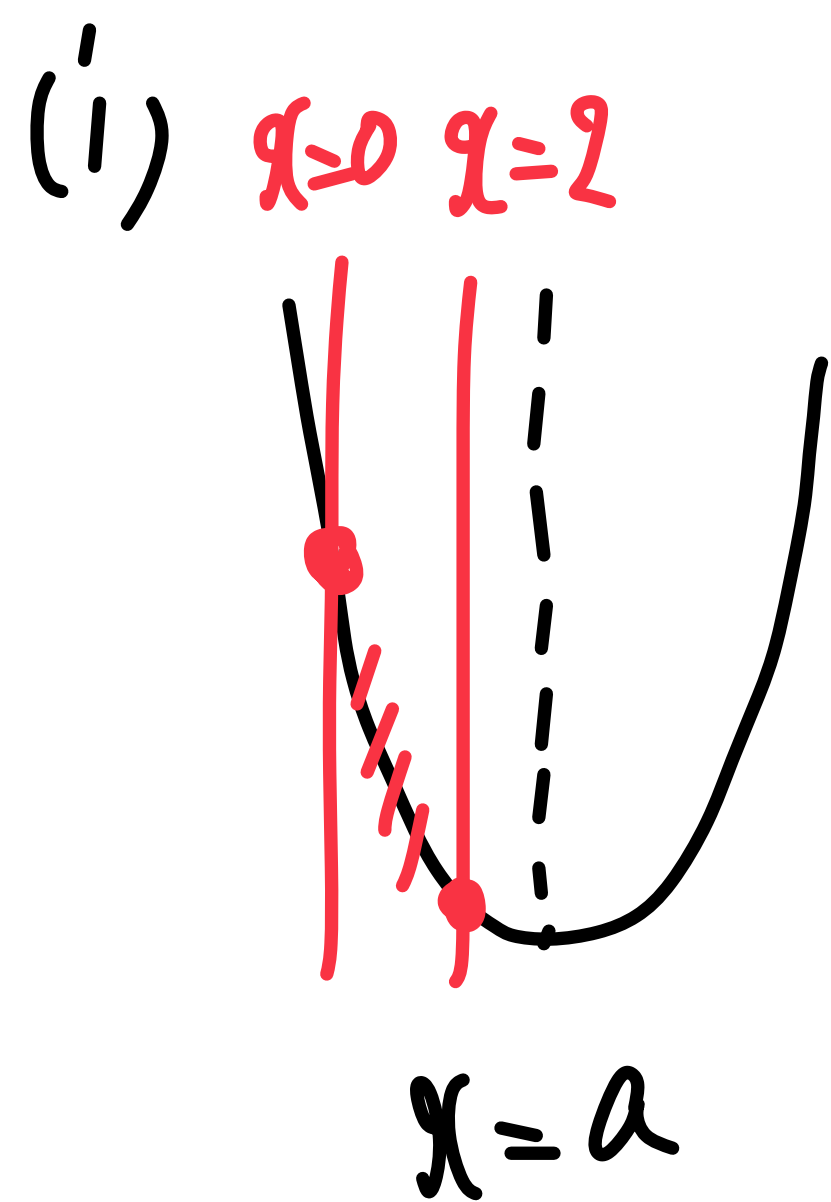
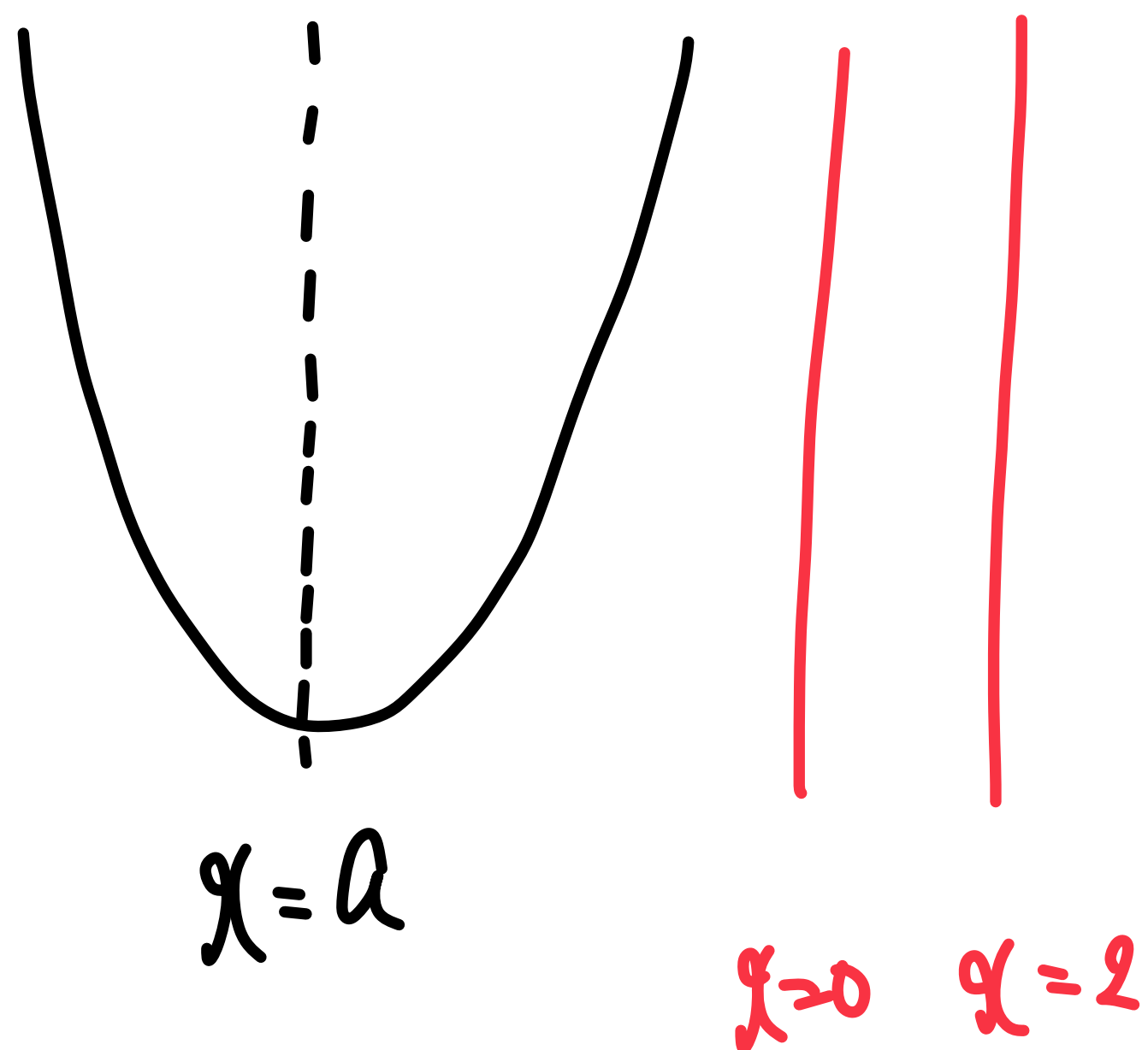
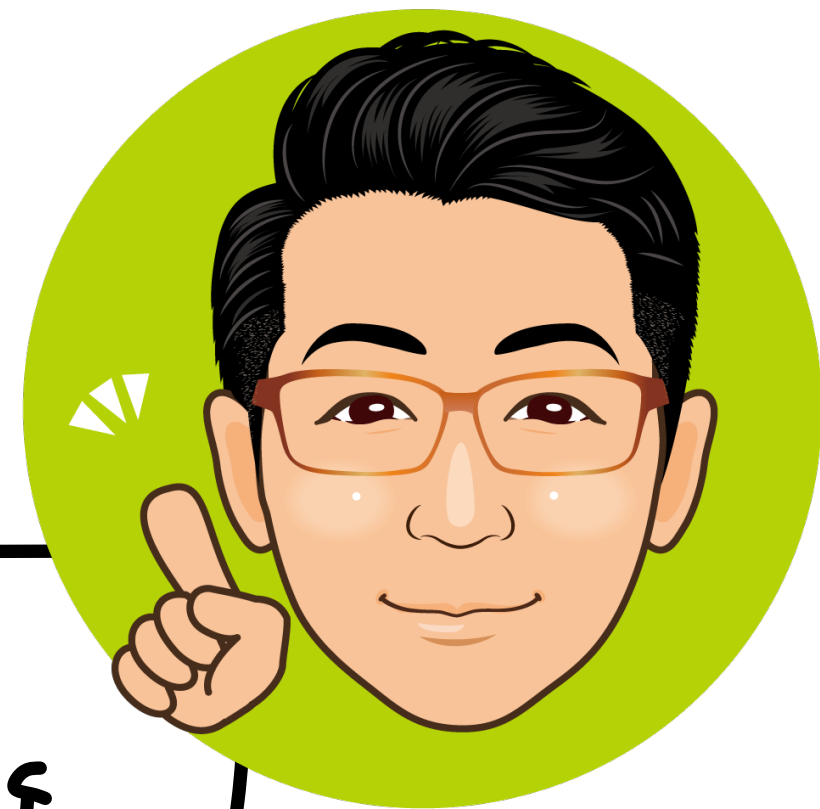


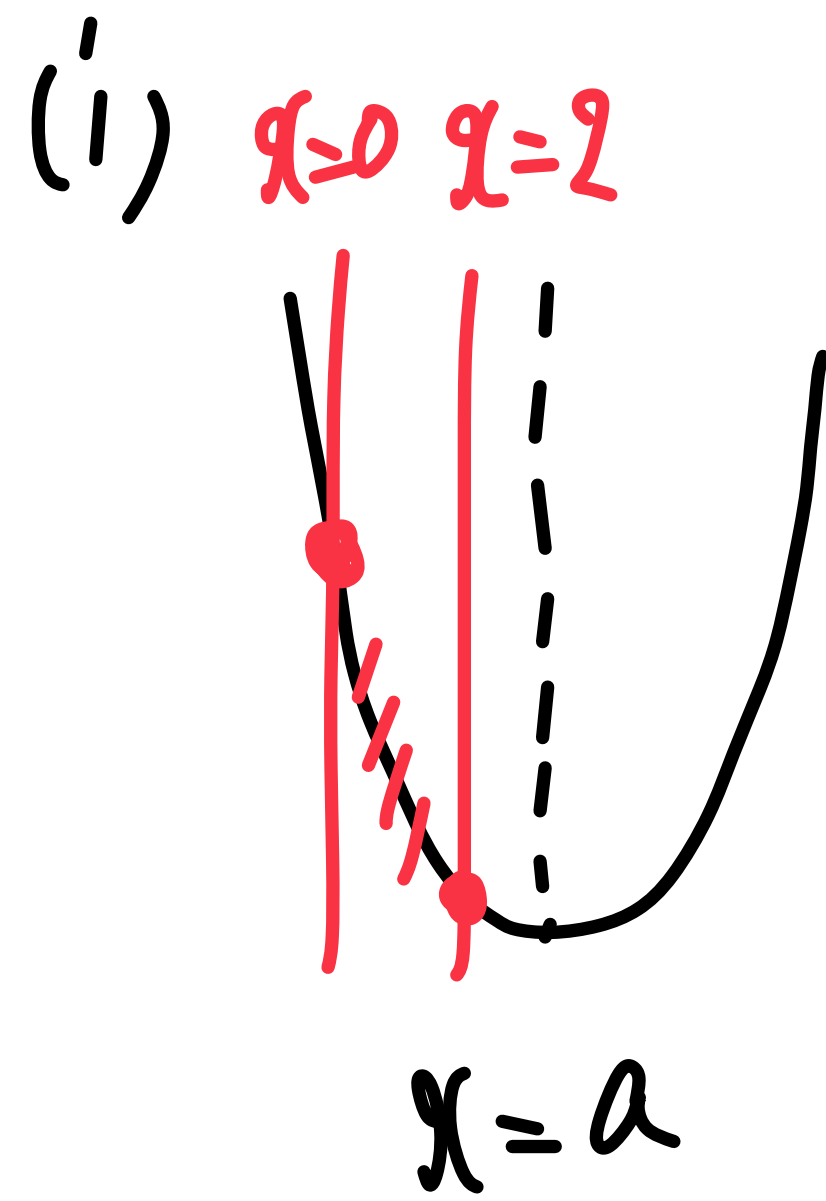
$$y = |x^2 - 2ax + a^2 + 1| \quad (0 \leq x \leq 2) \text{ の最小値}$$

$$y = (x-a)^2 - a^2 + a^2 + 1$$

$$y = (x-a)^2 + 1$$

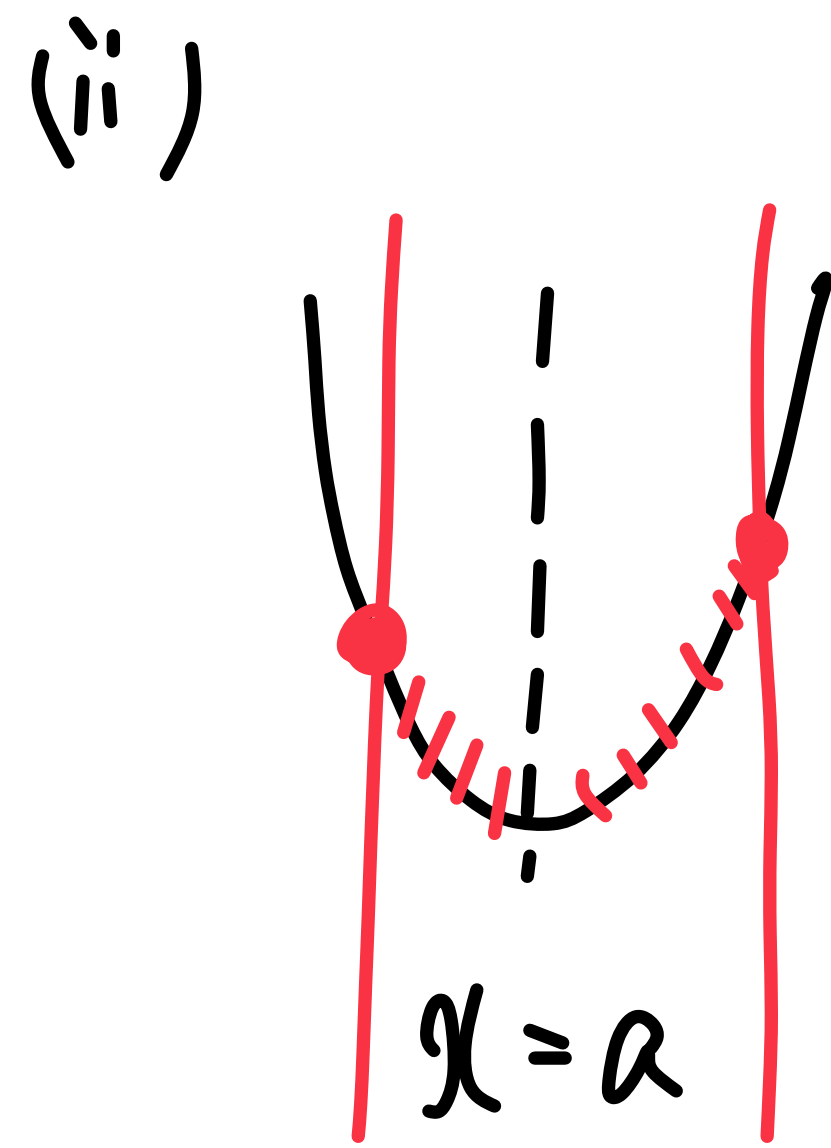
< ポイント >
 $a \rightarrow$ 固定 \Rightarrow 定義域移動





$$a > 2$$

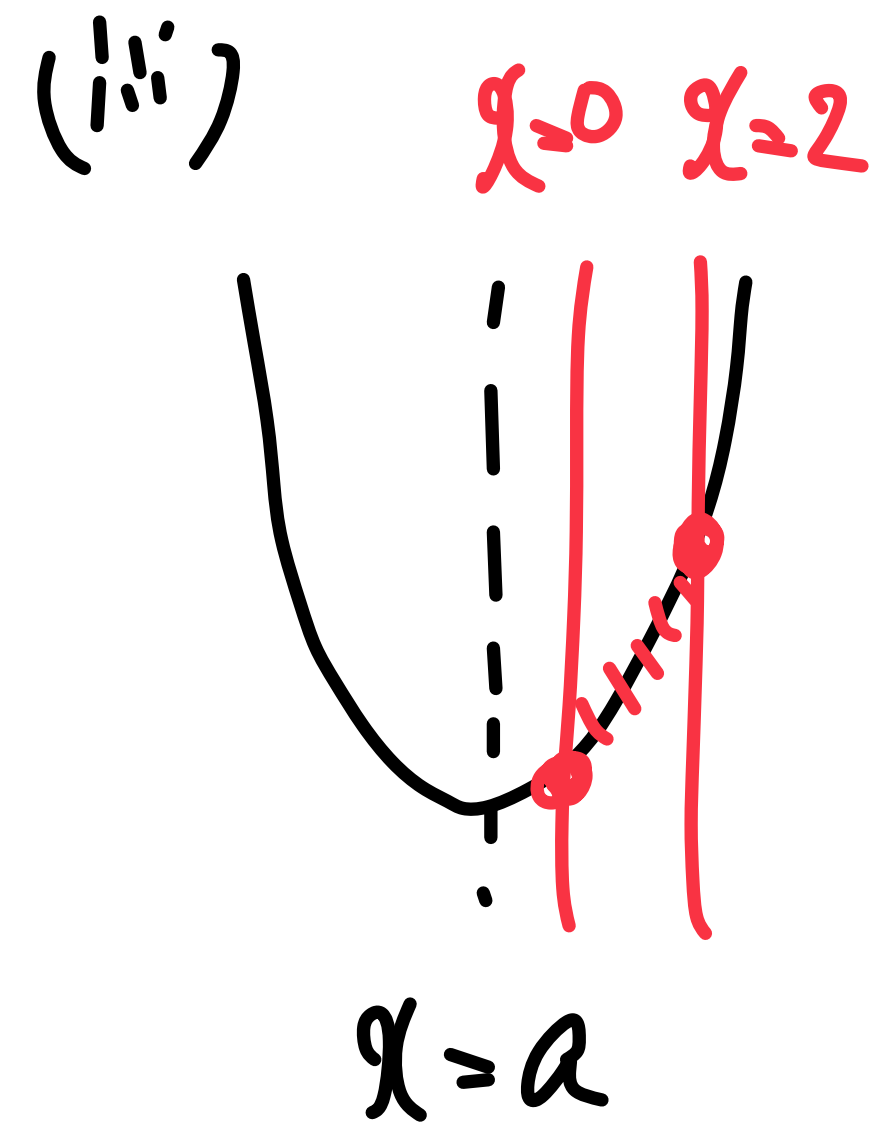
$$x=2 \text{ 为 } z \text{ 的最小值}$$



$$x=0 \quad x=2$$

$$0 < a \leq 2$$

$$x=a \text{ 为 } z \text{ 的最小值}$$



$$a \leq 0$$

$$x=0 \text{ 为 } z \text{ 的最小值}$$

(i), (ii), (iii) 的

$$a > 2 \text{ 时 } z \text{ 的最小值为 } a^2 - 4a + 5$$

$$0 < a \leq 2 \text{ 时 } z \text{ 的最小值为 } |$$

$$a \leq 0 \text{ 时 } z \text{ 的最小值为 } a^2 + |$$
