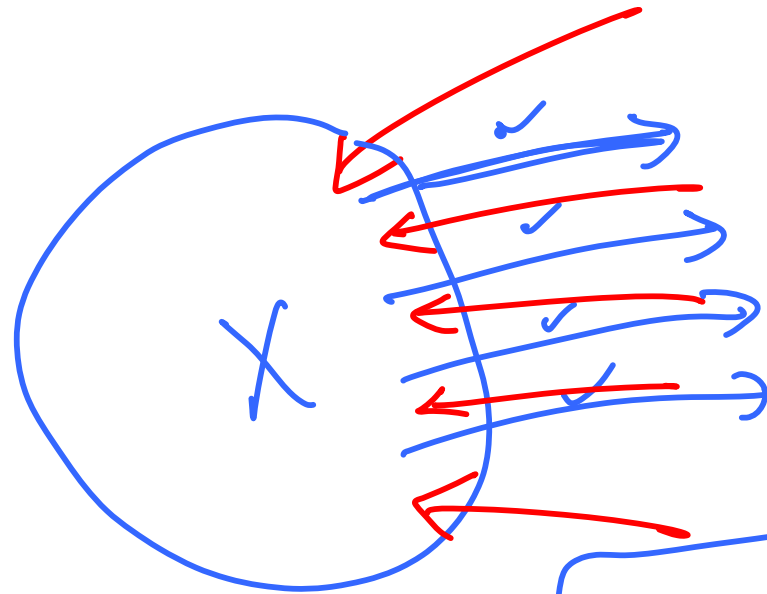
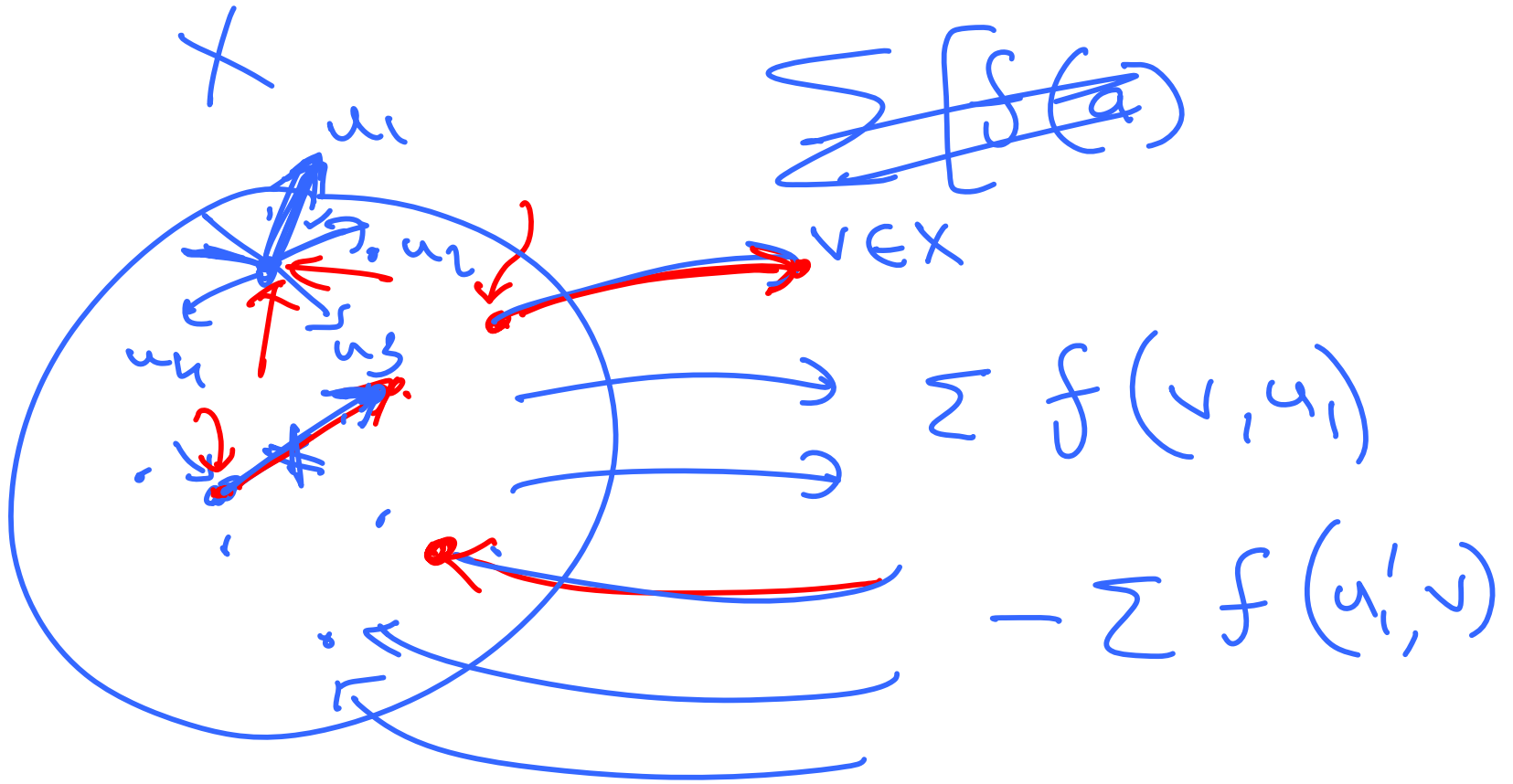


$$f^+(x) \leq c^+(x)$$



$$f(x) \geq \bar{b}(x)$$

$$c^+(x) \geq \bar{b}(x) \implies f^+(x) = \bar{f}(x) \geq \bar{b}(x)$$



$$f^+(x) - f^-(x) = 0$$

$$f^+(x) = f^-(x)$$

$$\begin{array}{l} f^+(x) \leq c^+(x) \\ f^-(x) \geq b^-(x) \end{array}$$

$$c^+(x) \geq \bar{b}(x)$$

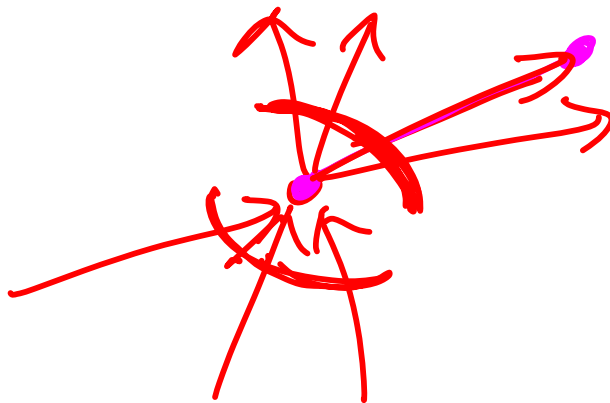
for every $x \in V$

f

$$b(a) \leq f(a) \leq c(a) \quad \checkmark$$

$$b(a) \leq \underbrace{f(a)}_{\text{circled}} \leq c(a)$$

"0"

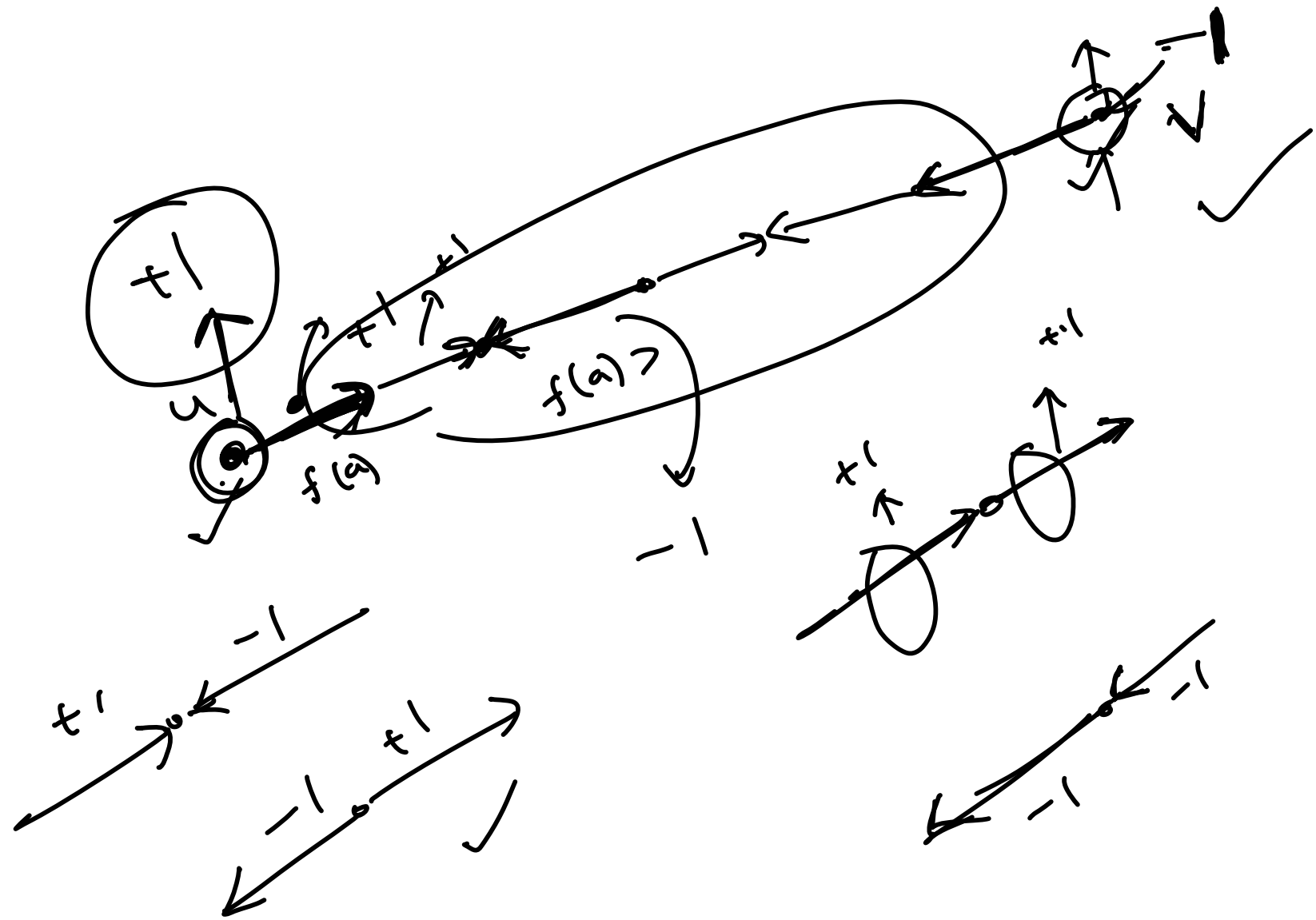


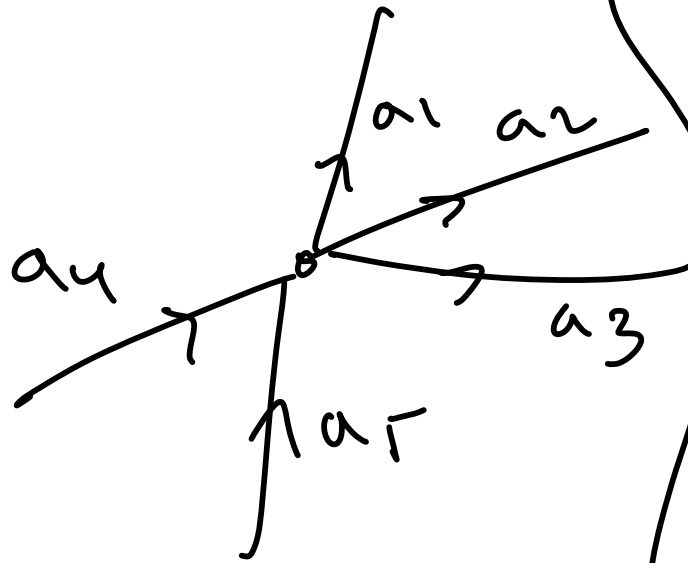
$$f^+(x) - f^-(x)$$

=

$$c^+(x) - b^-(x) \geq 0$$

$$c^+(x) \geq b^-(x)$$

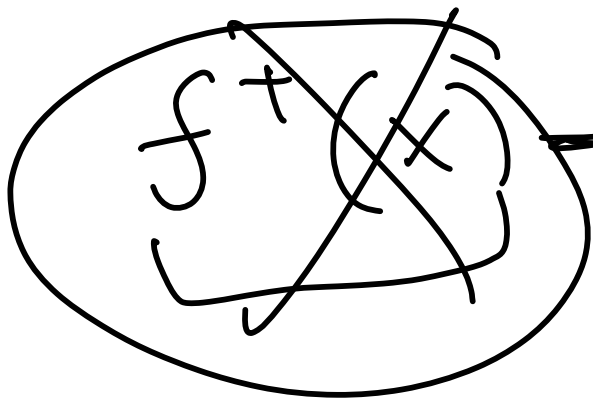




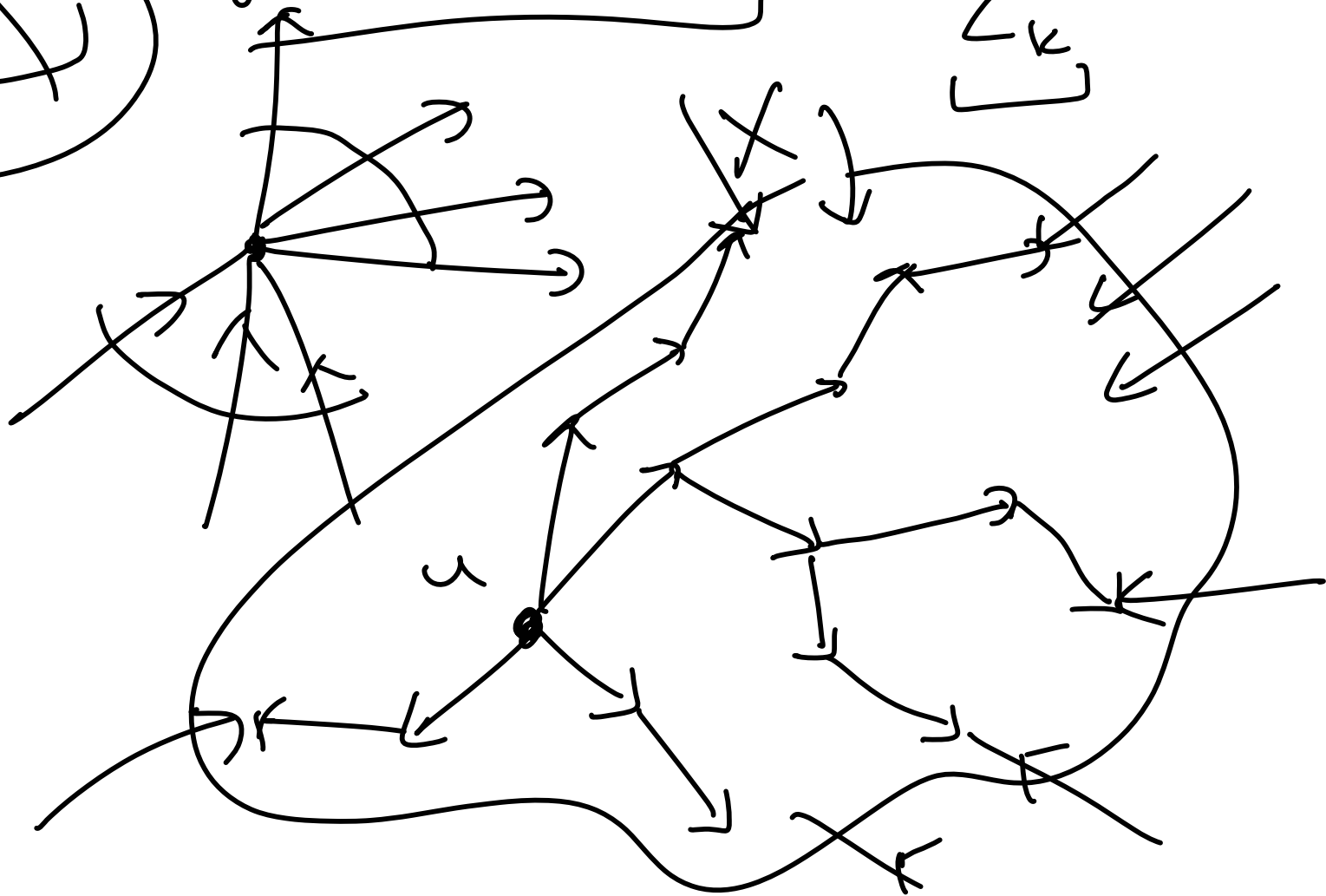
$$(f(a_1) + f(a_2) + f(a_3)) =$$

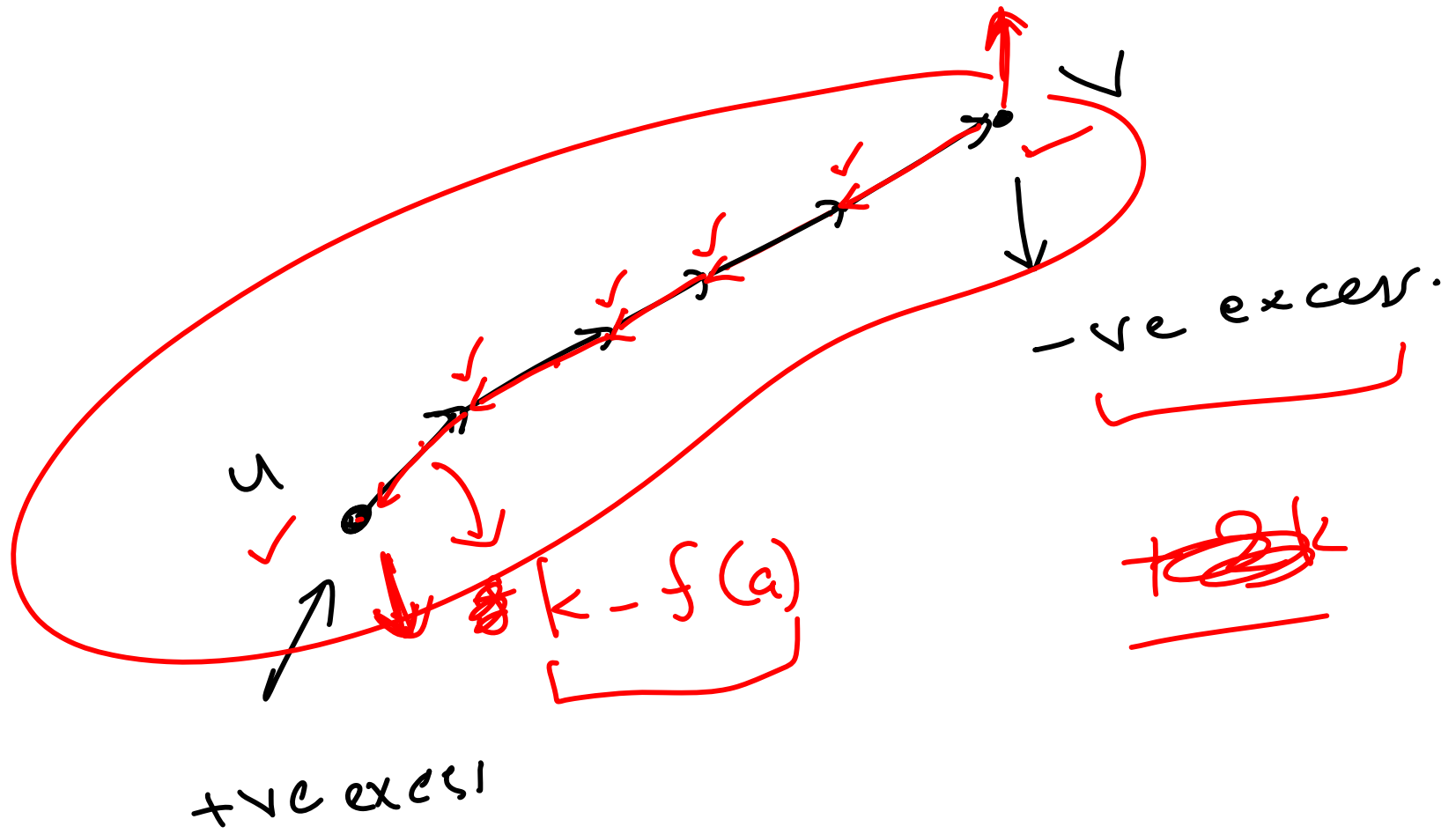
$$(f(a_4) + f(a_5))$$

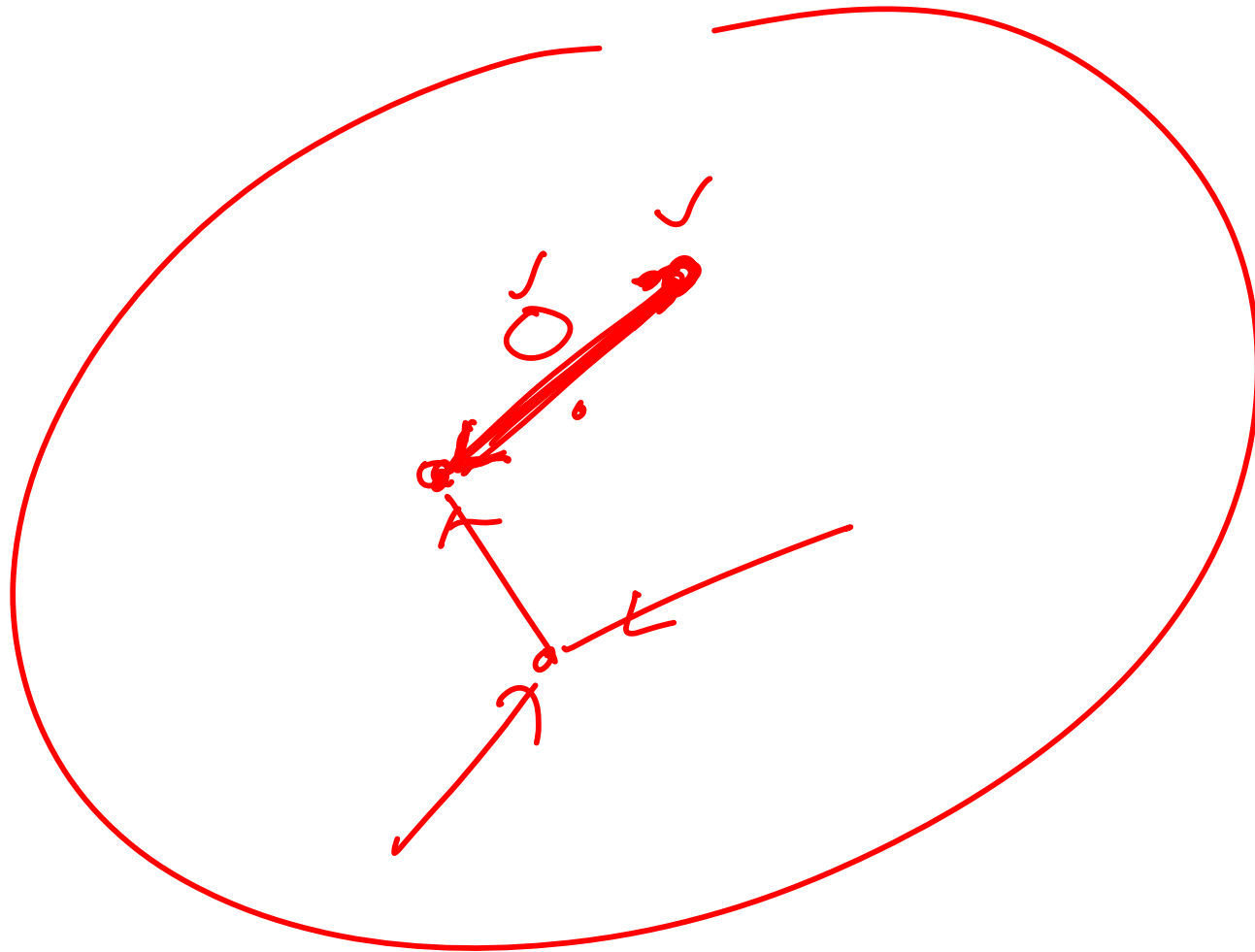
mod k



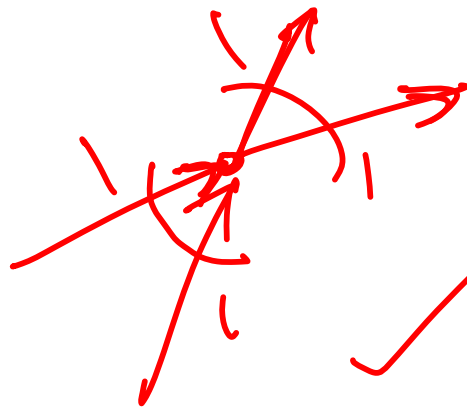
$$f^-(x) \leq 0$$





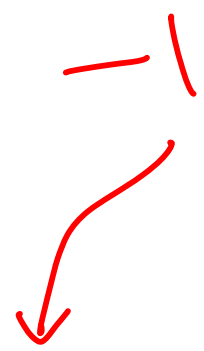
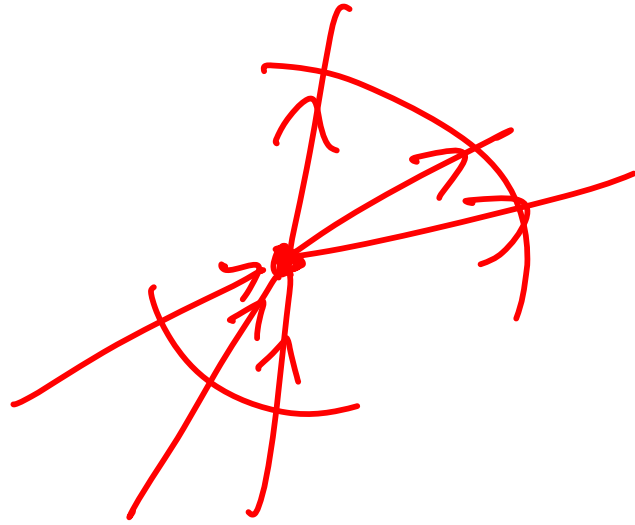


even



2

$$-1 \leq f(a) \leq 1$$



+ 1

