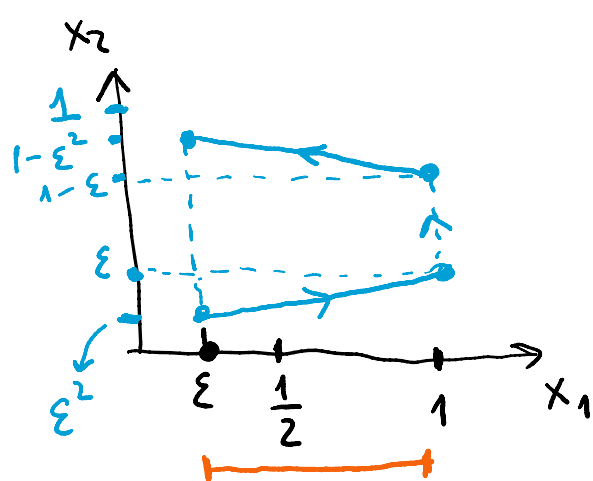


6. april 2020 08:55

$$0 < \varepsilon < \frac{1}{2} ; \quad \varepsilon \leq x_1 \leq 1, \quad \varepsilon x_1 \leq x_2 \leq 1 - \varepsilon x_1$$

$$\varepsilon x_j \leq x_{j+1} \leq 1 - \varepsilon x_j ; \quad f(x_1, \dots, x_n) = -x_n$$



$$n=2$$

$$\varepsilon x_1 \leq x_2$$

$$x_2 \leq 1 - \varepsilon x_1$$

$$\begin{array}{cc} \varepsilon < 1 \\ \downarrow & \downarrow \\ a_1 & a_2 \end{array}$$

$$\varepsilon a_1, \varepsilon a_2,$$

$$1 - \varepsilon a_1, 1 - \varepsilon a_2$$

$$n=3$$

$$\begin{array}{cccc} \varepsilon^2 & < & \varepsilon & < & 1 - \varepsilon & < & 1 - \varepsilon^2 \\ \downarrow & & \downarrow & & \downarrow & & \downarrow \\ a_1 & < & a_2 & < & a_3 & < & a_4 \end{array}$$

①. $0 \leq a_1 \leq 1$

②. $\varepsilon a_k < 1 - \varepsilon a_j$, $\forall j, k \in \{1, 2\}$

$\varepsilon(a_k + a_j) < 1 \checkmark$ (fordi $a_k + a_j \leq 2$
og $\varepsilon < \frac{1}{2}$)

en vilkårlig linje εx_2 vil ligge
under en vilkårlig linje $1 - \varepsilon x_2$

Alle mulige hjørner vil have en koordinat
 x_3 givet enten af εa_k eller $1 - \varepsilon a_j$

③

$\varepsilon a_k < \varepsilon a_{k+1}$

$1 - \varepsilon a_{j+1} < 1 - \varepsilon a_j$

$$\varepsilon a_1 < \varepsilon a_2 < \varepsilon a_3 < \varepsilon a_4 < 1 - \varepsilon a_4 < 1 - \varepsilon a_3 < 1 - \varepsilon a_2 < 1 - \varepsilon a_1$$

³
2 liftnen.