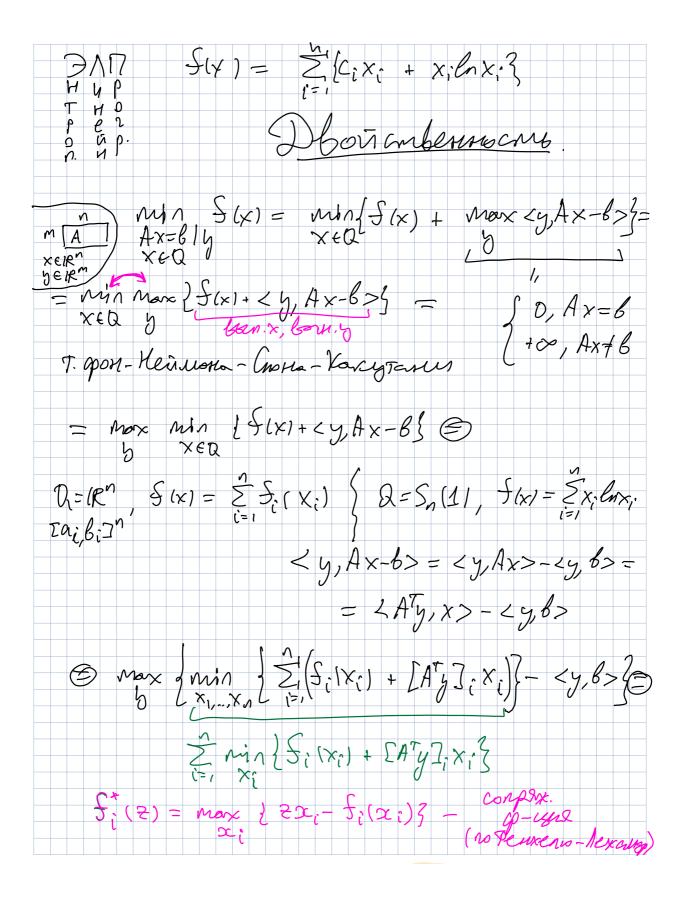
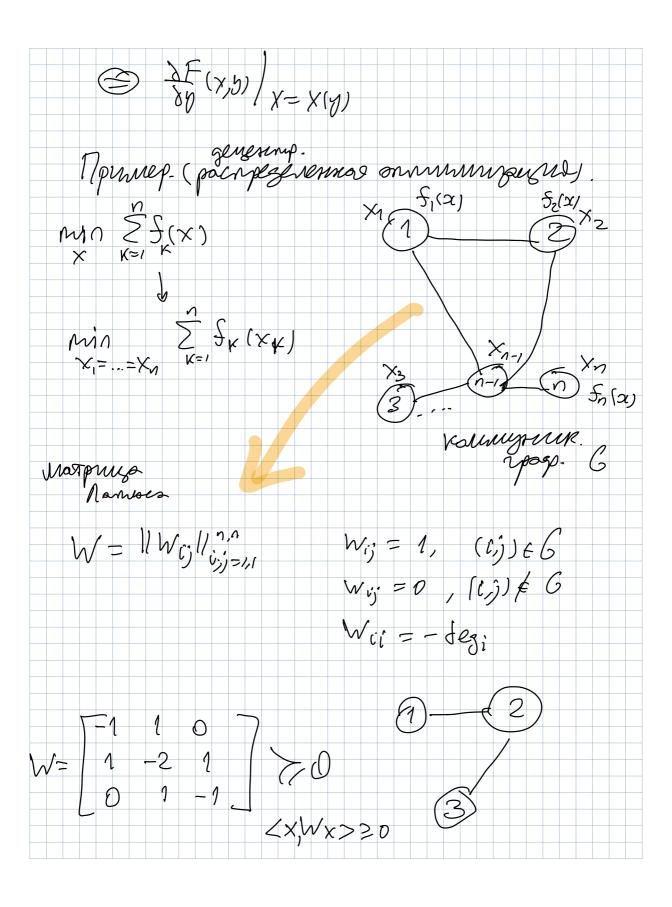
monuseme & f	(x) = Ax-b	$O(N^2)$
mais une		$O\left(\frac{1}{\sqrt{\epsilon}}\right)$
O Surve Tpygozespoots	$r = \mathcal{O}(\frac{n^2}{\sqrt{\epsilon}})$	$f(x^n) - f(x_n) \leq \frac{y_n k^2}{n^2}$
yempo. Mes-5		Pporn - Byr 690
$\left(\frac{n^2}{\sqrt{\epsilon}}\right)$	V,S	$\mathcal{O}(n^2 + \frac{m}{\epsilon})$
	$\frac{SGD}{O(\frac{n\ln n}{z^2})}$	
Nexumo 10	Bagorn c	acogonius un
SYNSOUS MUSHMO Facrupo mi		ν S C C C C C C C C C C C C C C C C C C
AX= x \in 1	2?	$ \begin{array}{c} \geq \\ \downarrow = \\ \downarrow = \\ \downarrow = \\ \times \in \mathbb{R}^n \end{array} $



$$\begin{array}{l} \text{Prox} \left[-\frac{1}{2} \sum_{i=1}^{n} \max_{x_i} \left[-A^T y J_i \times_i - S_i (x_i) \right] \right] - \langle y \rangle \right] \\ \text{Prox} \left[-\frac{1}{2} \sum_{i=1}^{n} \left[-\frac{1}{2} \sum_{i=1}^{n$$



$$Wx = 0 \iff x, = x_2 = ... = x_n$$

$$Mn \sum_{i=1}^{n} f(x) = min \sum_{i=1}^{n} f(x_i)$$

$$Wx - volleyn.$$

$$C coeggrun$$

$$Vx - volleyn.$$

$$C coeggrun$$

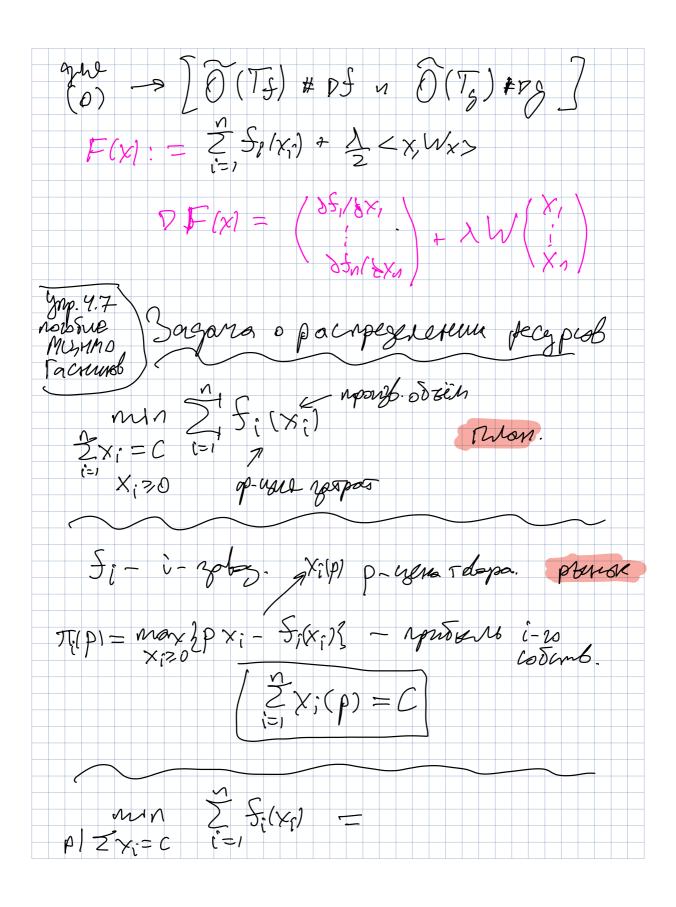
$$Vx - volleyn.$$

$$Vx$$

Meson (Pen) min $\sum_{i=1}^{n} S_i(x_i)$ $\sum_{i=1}^{n} S_i(x_i)$ $||Y_0|| \le R$, $\lambda = \frac{R^2}{\epsilon}$, $\epsilon - \text{xevaevol}$ Teoplus. Tyskari $\lambda = \frac{R^2}{\epsilon}$, or $\chi_{\epsilon}^{\lambda}$ - pem. Poporta (Pen) λ C Form. \mathcal{E} (no go-cycle).

Torgo $\chi_{\mathcal{E}}^{\lambda}$ bygen $3\mathcal{E}$ -pens, (no go-cycle)

regard (A), $\| \mathcal{W} \chi_{\mathcal{E}}^{\lambda} \|_{2}^{2} \leq \frac{\mathcal{E}}{\mathcal{E}}$. Crawyer $nun \{ \xi(x) + \xi(x) \}$ (0) man SIX) Myn S(x) Pf(x) Tf # Df



$$= \max_{x_1, \dots, x_n} \max_{p} \left\{ \sum_{i=1}^{n} S_i(x_i) + p(C - Zx_i) \right\} = \sum_{x_1, \dots, x_n} \max_{p} \left\{ \sum_{i=1}^{n} S_i(x_i) - px_i \right\} - pC = \sum_{i=1}^{n} \sum_{i=1}^{n} (p) - pC = \sum_{i=1}^{n} \sum_{i=1}^$$