Menuged 2. Josephennene Menoger no regorox Klosp. onnumy.

Klosp. on mums.

$$f(x) = \frac{1}{2} \langle x, A \rangle - 2 \delta, x \rangle \rightarrow \min_{x \in \mathbb{R}^{d}} f(x) = \frac{1}{2} \langle x, A \rangle - 2 \delta, x \rangle \rightarrow \min_{x \in \mathbb{R}^{d}} f(x) = \frac{1}{2} \langle x, A \rangle - 2 \delta, x \rangle \rightarrow \min_{x \in \mathbb{R}^{d}} f(x) = \frac{1}{2} \langle x, A \rangle - 2 \delta, x \rangle \rightarrow \min_{x \in \mathbb{R}^{d}} f(x) = \frac{1}{2} \langle x, A \rangle - 2 \delta, x \rangle \rightarrow \min_{x \in \mathbb{R}^{d}} f(x) = 0$$

$$f(x) = \frac{1}{2} \langle x, A \rangle - 2 \delta, x \rangle \rightarrow \min_{x \in \mathbb{R}^{d}} f(x) \rightarrow \min_{x$$

 $\mu_{70} = f(x^{\prime\prime}) - f(x_{\bullet}) = \langle (x^{\circ}_{\bullet} \times_{\bullet}), A(I_{\downarrow} - hA)^{2N}(x^{\circ}_{\bullet} \times_{\bullet}) \rangle$ 

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$$\max_{M I_{J}} \| I_{J} - hA \|_{2} \leq \max_{M \leq \lambda \leq L} |1 - h\lambda| \leq$$

$$||\widetilde{A}||_{2} = \max_{\chi} \frac{||\widetilde{A}\chi||_{2}}{||\chi||_{2}} = \max_{\chi} ||\widetilde{A}\chi||_{2} = \sum_{\chi} ||\widetilde{A}\chi$$

Max 
$$\frac{1}{2}h\lambda - 1$$
,  $\frac{1-h\lambda}{3} \leq \max_{h = 1} \frac{1-h\mu}{3}$ 
 $\frac{1}{1-h\mu}$ 
 $\frac{1}{1-h\mu}$ 
 $\frac{1}{1-h\mu}$ 
 $\frac{1}{1-h\mu}$ 
 $\frac{2}{1-h\mu}$ 
 $\frac{2}{1-h\mu}$ 
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 $\frac{2}{1-h\mu}$ 

$$\begin{aligned}
h &= \frac{1}{L} \\
N &= \chi \cdot N_{L} \leq (1 - \frac{M}{L})^{N} | x^{0} - x_{0} | x^{2} \leq \exp(-\frac{M}{L}x). \\
& = \frac{1}{M} \ln \frac{R^{0}}{E} \ln \frac{R$$

 $h \leq \frac{1}{L}$   $f(x^{\prime}) - f(x) \leq \frac{R^2}{4Nh} \leq \frac{LR^2}{4N}$   $\begin{cases} \frac{9LR}{4N} \\ \frac{LR^2}{N^2} \end{cases}$