review 5. Memoz yentrioro yozuenna

My (*) =>
$$\delta_{K+1} \leq (1-\delta_{K})\delta_{K} + \frac{\delta_{K}^{2}}{2} = (1-\frac{2}{K+1})\delta_{K} + \frac{2}{(K+1)^{2}}$$
 $\delta_{2} \leq \frac{1}{2}$, galbane no unsyrupun $\delta_{K} + \frac{2}{(K+1)^{2}}$

Nin $\delta_{K} = \frac{1}{2} \langle x, A \rangle \times \langle x \in Q = S_{0}(1) \rangle + \frac{1}{2} \langle x, A \rangle \times \langle x \in Q = S_{0}(1) \rangle + \frac{1}{2} \langle x, A \rangle \times \langle x \in Q = S_{0}(1) \rangle + \frac{1}{2} \langle x, A \rangle \times \langle x \in Q = S_{0}(1) \rangle + \frac{1}{2} \langle x, A \rangle \times \langle x \in Q = S_{0}(1) \rangle + \frac{1}{2} \langle x, A \rangle \times \langle x \in Q = S_{0}(1) \rangle + \frac{1}{2} \langle x, A \rangle \times \langle x \in Q = S_{0}(1) \rangle + \frac{1}{2} \langle x, A \rangle \times \langle x \in Q = S_{0}(1) \rangle \times \langle x \in Q = S_{0}(1) \rangle + \frac{1}{2} \langle x, A \rangle \times \langle x \in Q = S_{0}(1) \rangle$

2 Many 1888 Prome-Byllogo (yelologe. 2003)
$$\chi_{K} = \frac{2}{K+1} \qquad \chi^{0} = (1,0,...,0)$$

$$\int_{Y}^{K} = \underset{Y \in S_{1}(4)}{\operatorname{argmin}} < \nabla f(x^{K}), y > = \langle A \times f, y > y \in S_{1}(4) \rangle$$

$$\chi^{K+1} = (1-\gamma_{K}) \times K + \chi^{K} y K$$

$$\chi^{K} = (0,0,...,0,1,0,...,0)^{T}$$

$$\chi^{K} = \chi^{K} = \chi^{K} \times \chi$$

Inp. Poroxuse mo communitores interpressiones (Sloge 8).

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$$\lambda_{k} = \chi_{k} - \frac{1}{L_{k}} pf(\chi_{k})$$

$$\chi_{k+1} = \chi_{k} - \chi_{k} -$$

§ 2 ropanjosp.

 $\frac{M^2}{2\delta} , \lambda(\delta) = \frac{M^2}{\delta},$

$$\begin{cases}
(\overline{x}^{N}) - f(x) \leq \frac{L(\delta)R^{2}}{N^{2}} + \frac{\delta}{2} \\
\frac{L(\delta)R^{2}}{N^{2}} \leq \frac{\delta}{2} \qquad \delta = \varepsilon
\end{cases}$$

$$N \sim \frac{2L(\epsilon)R^{2}}{\varepsilon} = \frac{2M^{2}R^{2}}{\varepsilon^{2}}$$

$$\times^{\kappa+1} = \chi^{\kappa} - \frac{1}{L} \mathcal{D}f(\chi^{\kappa}) = \chi^{\kappa} - h \mathcal{D}f(\chi^{\kappa})$$

$$\delta = \varepsilon, \quad L = \frac{M^{2}}{\delta} = \frac{M^{2}}{\varepsilon}$$

$$\frac{\delta}{\delta} = \varepsilon = \frac{M^{2}}{\delta} = \frac{M^{2}}{\varepsilon}$$

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Helsengers onmulungerse

$$\min_{x} || f(x^{n})||_{2} \leq \sum_{x} || f(x^{n}) ||_{2} \leq \sum_{x} || f(x^{n}) - f(x^{n})||_{2} \leq \sum_{x} || f(x^{n}) - f(x^{n})||$$

31 nossus MUHMO

$$\frac{\xi^{2}}{2L}N \simeq \Delta f$$

$$N = \frac{2L\Delta f}{\xi^{2}}$$
ormula
$$\chi^{KH} = \chi^{K} - \frac{1}{L} pf(\chi^{K})$$
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