## Lec. 22-a concrete examples

Tuesday, July 30, 2024 12

12:19 AM

Recall:  $L(P, f) = L(f) = D(f) \in D(f) \in D(P, f)$ minimal is a product intermediate in the start is sing in a sing in the start is sing in the start is and is a sing in the start is

$$m_{j}(x^{2}) = \inf \{f(x)\} \stackrel{?}{=} \otimes x \in [x_{i-i}, x_{i}]$$

Correct and we  $a_j(x^2) = \left( q \in (j-1) \begin{pmatrix} b-a \\ n \end{pmatrix} \right)_{1 \le j \le n}$ 

Smilerly  $M_{j}(x^{2}) = \left(a + j\left(\frac{6-a}{n}\right)\right)^{2} \quad | \leq j \leq n$  $= \left( \begin{array}{c} \mathcal{L}_{n}; \mathcal{X}^{2} \\ \mathcal{I}_{n}; \mathcal{X}^{2} \end{array} \right) = = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \left( \frac{6 - q}{n} \right) \right]^{2} \\ = \left[ \left( \mathcal{L}_{n}; \mathcal{X}^{2} \right) \right] = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \left( \frac{6 - q}{n} \right) \right]^{2} \\ = \left[ \left( \mathcal{L}_{n}; \mathcal{X}^{2} \right) \right] = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \left( \frac{6 - q}{n} \right) \right]^{2} \\ = \left[ \left( \mathcal{L}_{n}; \mathcal{X}^{2} \right) \right] = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \left( \frac{6 - q}{n} \right) \right)^{2} \\ = \left[ \left( \mathcal{L}_{n}; \mathcal{X}^{2} \right) \right] = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \left( \frac{6 - q}{n} \right) \right)^{2} \\ = \left[ \left( \mathcal{L}_{n}; \mathcal{X}^{2} \right) \right] \\ = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \left( \frac{1}{n} \right) \left( \frac{1}{n} \right) \right] \\ = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \left( \frac{1}{n} \right) \left( \frac{1}{n} \right) \left( \frac{1}{n} \right) \right] \\ = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \right] \\ = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \right) \right] \\ = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \right) \right] \\ = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \right) \right] \\ = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \right) \right] \\ = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \right) \right] \\ = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \right) \right] \\ = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \right) \right] \\ = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \right) \right] \\ = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \right) \right] \\ = \left[ \left( \mathcal{L}_{n}; \left( \frac{1}{n} \right) \left( \frac{1}{n} \right)$ 

 $U(P_n;f) = \sum_{i=1}^{n} (a+j(\frac{b-a}{n}))^2 (\frac{b-a}{n})$ 

 $f = \left(\frac{p_{n}p_{n}p_{n}}{p_{n}p_{n}p_{n}}\right) + \left[\left(\frac{b-q}{p_{n}}\right)^{2} + a \cdot \left(\frac{b-q}{p_{n}}\right) + \left[\left(\frac{b-q}{p_{n}}\right)^{2} + a \cdot \left(\frac{b-q}{p_{n}}\right) + a \cdot \left(\frac{b-q}{p_{n}}\right)^{2} + a \cdot \left(\frac{b-q}{p_{n}}\right)^$ need to Know how We  $\sum_{j=1}^{n} \sqrt{\frac{n}{2}} = 1$ n(n+1)(2n+1)+  $\left(\frac{b-q}{n}\right)^2 \cdot \frac{n(n-1)(2n-1)}{n}$  $\underline{n(n+1)}$ We to m-1  $U(P_n;f) = \left(\frac{6-9}{n}\right) = \left(\frac{nq^2}{n}\right)$ summation by put  $+ \left(\frac{6-9}{n}\right) \circ n(n+1) + \left(\frac{3-9}{n}\right)^2$ <u>n(m+1)(2n+1)</u> 6