

2n Xin = 4038 (Xn + Xn+1 + ... + Xzn-1)

2n-1) X2n-1 & 4038 (Xn + Xn+1 + ... + X2n-1)

(c) 正不角.

lim N Xn = D

$$|(M_{i+1})(Q_{M_{i+1}}-Q)+\dots+N(Q_{n-Q_{1}})|$$

$$\leq \frac{1}{n^{2}}\sum_{i=N_{i+1}}^{N}i|Q_{i}-Q_{i}|<\frac{1}{n^{2}}\frac{2}{2}\cdot\frac{n_{i+1}}{2}$$

$$(*)$$
 \forall $< \frac{2}{4} + \frac{2}{2} + \frac{2}{4} = 2$

(c)

$$E_1 = \int (1 + 2^{2n})^{\frac{1}{2n}} \int E_2 = \int (1 + 2^{2n})^{\frac{1}{2n}} \int E_3$$

 $E_4 = \int (1 + 2^{2n})^{\frac{1}{2n}} \int E_4$

$$(x_n = (1 + 2^{2n})^{\frac{1}{2n}} = 2^{\frac{\log_2(1 + 2^{2n})}{2n}}$$

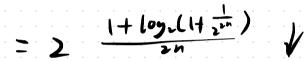
inf E = 1

$$y_{n} = (1+2^{(2n-1)})^{\frac{1}{2n-1}} = 2^{\frac{1}{(2n-1)}}$$









: Supfyn y = 3 inf [4ny= 1

, sup E = J5

(d)

$$Q_{n-1} = Sin(Q_{n,1}-1)$$

 $f_{n} = Q_{n}-1 = f_{n}$
 $f_{n} = Sin(Q_{n,1}-1)$
 $f_{n} = G_{n}$
 $f_{$

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· f(x) > f(0) = 0 (x E [-1, .])

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$$\left|\frac{a_{n}}{b_{n}} - \frac{a}{b}\right| = \left|\frac{ba_{n} - ab_{n}}{bb_{n}}\right| = \left|\frac{ba_{n} - ab_{n} + ab_{n}}{bb_{n}}\right|$$

$$\leq \left|\frac{a_{n} - a}{bn}\right| + \frac{|a||b_{n} - b||}{|b|b_{n}|} \leq \frac{\varepsilon}{2} + \frac{\varepsilon}{2} = \varepsilon$$