Magazan Sonathan (9)15) Sominar 4 - HW

 $\frac{1}{2} = \frac{1 \cdot 3^{2} \cdot - - (2m - 1)}{2 \cdot 4 \cdot \cdot \cdot \cdot 2m} \cdot \frac{1}{m^{2}} = \frac{1}{2}$ 

Rate fet:

 $\frac{1}{1} = \frac{1}{2 \cdot 1} = \frac{1}$ 

 $\frac{\partial}{\partial x} = \frac{2m+1}{2m+1}, \quad \frac{m^2}{(m+1)^2} = 1$ 

Uning R.D.

$$\lim_{M \to \infty} M \cdot \left( \frac{\chi_{n}}{\chi_{n+1}} \right) = \lim_{M \to \infty} M \cdot \left( \frac{(m+1)^{2} \cdot (m+1) \cdot \lambda}{(2m+1) \cdot m^{2}} \right)$$

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$$\frac{1}{2m+1} = \frac{1}{2m+1} \cdot \frac{1}{2m+1} \cdot \frac{1}{2m+1} \cdot \frac{1}{2m+1} = \frac{1}{2m+1} = \frac{1}{2m+1} \cdot \frac{1}{2m+1} = \frac{1$$

$$= \lim_{m \to \infty} \frac{3^{2} + \ln 2}{2^{m^{3}} + \ln 2}$$

$$= \frac{5}{2} > 1 > 1$$

$$\begin{cases}
\frac{m}{2} \\
\frac{m}{2}
\end{cases}$$

( X M (M ~) 1 12 LI E) - 2 LX=2  $S(X) \in (-2,2)$ Xn b (onvergnt

 $R = \sum_{i=1}^{n} R_i$