Banisan tak hingga

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(2)
$$\{2, 1, \frac{2^3}{3^2}, \frac{2^4}{4^2}, \dots \}$$

formula etsplisit
$$a = \frac{2^n}{n^2}$$
 , $n \ge 1$

an konvergen sita
$$x \to \infty$$
 $f(x) = L$ dengan $f(x) = \frac{2^x}{x^2}$

$$\lim_{X \to \infty} \frac{2^{X}}{X^{2}} = \lim_{X \to \infty} \frac{2^{X} (\ln 2)^{2}}{2^{X}} = \lim_{X \to \infty} \frac{2^{X} (\ln 2)^{2}}{2} = \infty$$

maka karena 200 f(x) = 00 dapat dipastikan bahwa an divergen

Deret tat himaga

$$\begin{array}{lll} & \stackrel{\stackrel{\longleftarrow}{}}{\stackrel{\longleftarrow}{}} \sqrt{2} & = \sqrt{2} + \sqrt{2} + \sqrt{2} & \cdots \sqrt{2} \\ & \stackrel{\stackrel{\longleftarrow}{}}{\stackrel{\longleftarrow}{}} \sqrt{2} & = 0 \rightarrow \text{misal} \ f(x) = 2^{\frac{1}{x}} \rightarrow \lim_{x \to \infty} 2^{\frac{1}{x}} \\ & = \lim_{x \to \infty} 2^{\frac{1}{x+300}} \stackrel{\stackrel{\longleftarrow}{}}{\stackrel{\longleftarrow}{}} = 2^{\frac{1}{x}} = 1 \\ & \text{Fanena} & \lim_{x \to \infty} \alpha_x \neq 0 & \text{maka} & \stackrel{\longleftarrow}{\stackrel{\longleftarrow}{}} \alpha_n = 2^{\frac{1}{n}} = \sqrt{2} & \text{divergen} \\ & & \text{however} \end{array}$$