

lim_{n \to \infty} \epsilon_{n-2} = \epsilon(x) - 2 = \infty

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lim_{n \to \infty} \epsilon_{[n]} - 2 = \epsilon(x) - 2 = \infty

lim_{n \to \infty} \epsilon_{[n]} - 2 = \epsilon(1) - 2 = 1

(۲) (۲)

lim_{n \to \infty} [\epsilon_{n-2}] = lim_{n \to \infty} \epsilon_{n-2} = \infty

lim_{n \to \infty} [\epsilon_{n/2}] = \epsilon

(۲) (۳)

n > 2 \Rightarrow \epsilon_n > 1 \Rightarrow \epsilon_{n-2} > \infty \Rightarrow [\epsilon_{n-2}] = \infty

n < 2 \Rightarrow \epsilon_n < 1 \Rightarrow \epsilon_{n-2} < \infty \Rightarrow [\epsilon_{n-2}] = \epsilon

[lim_{n \to \infty} \epsilon_{n-2}] = [\epsilon(x) - 2] = \infty

[lim_{n \to \infty} \epsilon_{n-2}] = [\epsilon(x) - 2] = \infty

(۴)

lim_{n \to \infty} \frac{\epsilon_{n-2}}{n-2} = \frac{9}{0^+} = +\infty

lim_{n \to \infty} \frac{\epsilon_{n-2}}{(n-2)^2} = \frac{9}{0^+} = +\infty

lim_{n \to \infty} \frac{\epsilon_{n-2}}{\sqrt{n-2}} = \frac{9}{\sqrt{0^+}} = +\infty

lim_{n \to \infty} \frac{\epsilon_{n-2}}{\sqrt{n^2 - \epsilon_{n+2}}} = \frac{9}{\sqrt{0^+}} = +\infty

lim_{n \to \infty} \frac{\epsilon_{n-2}}{n^2 - \sqrt{n+2}} = \frac{9}{0^-} = -\infty

lim_{n \to \infty} \frac{\epsilon_{n-2}}{[n-2]} = \frac{9}{0^+} = +\infty

lim_{n \to \infty} [\epsilon_n] + [-2n] = lim_{n \to \infty} [\epsilon_n] + lim_{n \to \infty} [-2n]

lim_{n \to -\infty} [-\epsilon_n] + [\epsilon_n]

$\lim_{n \rightarrow 2} [n^2 - 4n]$

$\lim_{n \rightarrow 2^+} [n(n-4)] = -2$
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$\lim_{n \rightarrow 2^-} [n(n-4)] = -2$

$\lim_{n \rightarrow 5} [6n - n^2]$

$\lim_{n \rightarrow 5^+} [n(6-n)] = 15$ (1)

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$\lim_{n \rightarrow 5^-} [n(6-n)] = 15$ (2)

$\lim_{n \rightarrow 2} \frac{|n-2|}{n^2 - 2n + 2}$

$\lim_{n \rightarrow 2^+} \frac{|n-2|}{n^2 - 2n + 2} = \lim_{n \rightarrow 2^+} \frac{n-2}{n^2 - 2n + 2} = \lim_{n \rightarrow 2^+} \frac{1}{n+1} = \frac{1}{3}$

$\lim_{n \rightarrow 2^-} \frac{|n-2|}{n^2 - 2n + 2} = \lim_{n \rightarrow 2^-} \frac{-n+2}{n^2 - 2n + 2} = \frac{-1}{3} = -\frac{1}{3}$

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$\lim_{n \rightarrow 1} \frac{n - [n]}{n^2 - 1}$

$\lim_{n \rightarrow 1^+} \frac{n - [n]}{n^2 - 1} = \frac{0}{0}$

$n > 1 \Rightarrow [n] = 1$

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

$n < 1 \Rightarrow [n] = 0$

$\lim_{n \rightarrow 1^-} \frac{n - 0}{n^2 - 1} = \frac{n}{n^2 - 1} = \frac{1}{n-1} = -\infty$

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$n \rightarrow 1^+ : \frac{n-1}{(n-1)(n+1)} = \frac{1}{n+1}$

منو از زحمات
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