

عرفان حقیقی یا زده سیر A

الف)  $f(x) - \mu \Rightarrow \omega$

(1)

ب)  $f(x) - \mu \Rightarrow \omega$

الف)  $f[x, a] - \mu \Rightarrow \omega$

ب)  $f[x, b] - \mu = 1$

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الف)  $[f_n] - \mu \xrightarrow{n > r \Rightarrow f_n > \Lambda} \Lambda - \mu = \omega$

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ب)  $[f_n] - \mu \xrightarrow{n < r \Rightarrow f_n < \Lambda} \nu - \mu = \mu$

$\lim_{n \rightarrow r^+} f_n - \mu \Rightarrow [\omega] = \omega$      $\lim_{n \rightarrow r^-} f_n - \mu \Rightarrow [\omega] = \omega$

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الف)  $\lim \frac{f_n - \mu}{n - \mu} \begin{cases} \mu^+ \frac{9}{\cdot^+} = +\infty \\ \mu^- \frac{9}{\cdot^-} = -\infty \end{cases}$

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$$\rightarrow) \lim_{n \rightarrow \infty} \frac{f_{n-\mu}}{(n-\mu)^2} \begin{cases} \mu^+ & \frac{9}{. +} = +\infty \\ \mu^- & \frac{9}{. +} = +\infty \end{cases}$$

الف)  $\lim_{n \rightarrow \infty} \frac{f_{n-\mu}}{\sqrt{n-\mu}} \begin{cases} \mu^+ & \frac{9}{. +} = +\infty \\ \mu^- & \text{ن} = \end{cases}$

ب)  $\lim_{n \rightarrow \infty} \frac{f_{n-\mu}}{\sqrt{n^2 - n + \mu}} \begin{cases} \mu^+ & \frac{9}{. +} = +\infty \\ \mu^- & \text{ن} = \end{cases}$

$$\begin{array}{c} | \quad \mu \\ + | - | + \end{array}$$

ج)  $\lim_{n \rightarrow \infty} \frac{f_{n-\mu}}{(n-\mu)(n-\mu)} \begin{cases} \mu^+ & \frac{9}{. -} = -\infty \\ \mu^- & \frac{9}{. +} = +\infty \end{cases}$

$$\begin{array}{c} \mu \quad \mu \\ + | - | + \end{array}$$

د)  $\lim_{n \rightarrow \infty} \frac{f_{n-\mu}}{[n-\mu]} \begin{cases} \mu^+ & \text{ن} = \\ \mu^- & \frac{9}{-1} = -9 \end{cases}$

هـ)  $\lim_{n \rightarrow \infty} [f_n] + [-r_n] \begin{cases} \mu^+ & [f(\mu, 1)] + [-r(\mu, 1)] = \gamma \\ \mu^- & [f(\mu, 1)] + [-r(\mu, 1)] = \gamma \end{cases}$

$$\rightarrow \lim_{x \rightarrow a} [-f(x)] + [g(x)] \begin{cases} \xrightarrow{-x^+} [-f(-a, 9)] + [g(-a, 9)] = 11 \\ \xrightarrow{-x^-} [-f(-9, 1)] + [g(-9, 1)] = 11 \end{cases} \quad \wedge$$

$$1) \lim [n^r - r^n] \begin{cases} r^+ & [(r,1)^r - r(1,1)] = -r^6 \\ r^- & [(1,9)^r - r(1,9)] = -r^6 \end{cases}$$

$$\Rightarrow \lim [4n - n^r] \begin{cases} r^+ & [4(r,1) - (r,1)^r] = \wedge \\ r^- & [4(1,9) - (1,9)^r] = \wedge \end{cases}$$

$$ii) \lim \frac{|n-r|}{(n-1)(n-r)} \begin{cases} r^+ & \frac{n-r}{(n-r)(n-1)} = \frac{1}{1} = 1 \\ r^- & \frac{-n+r}{(n-r)(n-1)} = \frac{-1}{1} = -1 \end{cases}$$

$$\Rightarrow \lim \frac{n - [n]}{n^r - 1} \begin{cases} r^+ & \frac{n-1}{(n-1)(n+1)} = \frac{1}{r} \\ r^- & \frac{n}{n^r - 1} = \frac{1}{r} = -\infty \end{cases}$$