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ا) $\lim_{x \rightarrow 2^+} (x-3) = (2-3) = \omega$

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ب) $\lim_{x \rightarrow 2^-} (x-3) = (2-3) = \omega$

ا) $\lim_{x \rightarrow 2^+} (x-3) = (2^+) - 3 = (x-3) = \omega$

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ب) $\lim_{x \rightarrow 2^-} (x-3) = (2^-) - 3 = (x-3) = \omega$

ا) $\lim_{x \rightarrow 2^+} (x-3) = [(x-3)^+] = [1^+ - 3] = (\omega^+) = \omega$

ب) $\lim_{x \rightarrow 2^-} (x-3) = [(x-3)^-] = [1^- - 3] = (\omega^-) = \omega$

ا) $[\lim_{x \rightarrow 2} (x-3)] = [\omega] = \omega$

ب) $[\lim_{x \rightarrow 2} (x-3)] = [\omega] = \omega$

ا) $\lim_{x \rightarrow 3} \frac{(x-3)}{x-3} \left. \begin{array}{l} \frac{0}{0^+} = +\infty \\ \frac{0}{0^-} = -\infty \end{array} \right\} \text{صندارد}$

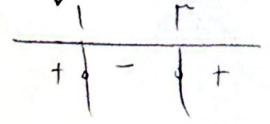
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ب) $\lim_{x \rightarrow 3} \frac{(x-3)}{(x-3)^2} \left. \begin{array}{l} \frac{0}{0^+} = +\infty \\ \frac{0}{0^-} = +\infty \end{array} \right\} \text{صندارد}$

ا) $\lim_{x \rightarrow 3} \frac{(x-3)}{\sqrt{x-3}} \left. \begin{array}{l} \frac{0}{0^+} = +\infty \\ \frac{0}{\sqrt{3-3}} \times \infty \end{array} \right\} \text{صندارد}$

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ب) $\lim_{x \rightarrow 3} \frac{(x-3)}{\sqrt{2x^2 - 2x + 3}} \left. \begin{array}{l} \frac{0}{\sqrt{0^+}} = +\infty \\ \frac{0}{\sqrt{0^-}} \times 0 = \end{array} \right\} \text{صندارد}$



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

$\left. \begin{array}{l} r^+ \rightarrow \frac{0}{0} = -\infty \\ r^- \rightarrow \frac{0}{0^+} = +\infty \end{array} \right\}$

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$\lim_{n \rightarrow 2} \frac{(n-2)}{(n-2)}$

$\left. \begin{array}{l} r^+ \rightarrow \frac{0}{(0^+)} = \frac{0}{0^+} \times 0 = 0 \\ r^- \rightarrow \frac{0}{(0^-)} = \frac{0}{-1} = -0 \end{array} \right\}$

صفر دارد

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

$\left. \begin{array}{l} r^+ \rightarrow (0^+) + (-0^-) = 0 - 0 = 0 \\ r^- \rightarrow (0^-) + (-0^+) = 0 - 0 = 0 \end{array} \right\}$

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$\lim_{n \rightarrow -7} [(-2n) + (2n)]$

$\left. \begin{array}{l} -7^+ \rightarrow \begin{array}{l} n > -7 \quad -2n < 14 \\ n > -7 \quad 2n > -14 \end{array} \rightarrow 14 - 14 = 0 \\ -7^- \rightarrow \begin{array}{l} n < -7 \quad -2n > 14 \\ n < -7 \quad 2n < -14 \end{array} \rightarrow 14 - 14 = 0 \end{array} \right\}$

$\lim_{n \rightarrow 2} [n^2 - (n)] = -1$

$\left. \begin{array}{l} r^+ \rightarrow (-2^+) = -2 \\ r^- \rightarrow (-2^-) = -2 \end{array} \right\}$

قابل استقسیم $\min \left| \begin{array}{l} 2 \\ -2 \end{array} \right|$

(5)

$\lim_{n \rightarrow 3} [4n - 2n^2]$

$\left. \begin{array}{l} r^+ \rightarrow (9^-) = 9 \\ r^- \rightarrow (9^-) = 9 \end{array} \right\}$

قابل استقسیم $\min \left| \begin{array}{l} 3 \\ 9 \end{array} \right|$

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

$\left. \begin{array}{l} r^+ \rightarrow \frac{0}{(n-2)(n-1)} = \frac{1}{1} = 1 \\ r^- \rightarrow \frac{-(n-2)}{(n-2)(n-1)} = -1 \end{array} \right\}$

صفر دارد (5)

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

$\left. \begin{array}{l} r^+ \rightarrow \frac{n-1}{(n-1)(n+1)} = \frac{1}{n+1} \\ r^- \rightarrow \frac{n}{n^2-1} = \frac{1}{0^-} = -\infty \end{array} \right\}$

صفر دارد