

الف) $\lim_{n \rightarrow 1^+} (n-1) = 0$

ب) $\lim_{n \rightarrow 1^-} (n-1) = 0$

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الف) $\lim_{n \rightarrow 1} \frac{n-1}{n-1} \begin{cases} \frac{0}{0^+} = +\infty \\ \frac{0}{0^-} = -\infty \end{cases}$

ب) $\lim_{n \rightarrow 1} \frac{n-1}{(n-1)^2} = \frac{0}{0^+} = +\infty$

الف) $\lim_{n \rightarrow 1} \frac{n-1}{\sqrt{n-1}} \begin{cases} \frac{0}{0^+} = +\infty \\ \text{تن: دراصلیت} \end{cases}$

ب) $\lim_{n \rightarrow 1} \frac{n-1}{\sqrt{n^2-n+1}} \begin{cases} \frac{0}{0^+} = +\infty \\ \frac{1}{1-1+1} = 1 \end{cases}$

الف) $\lim_{n \rightarrow 1} \frac{n-1}{n^2-\sqrt{n}+1} \begin{cases} \frac{0}{0^+} = -\infty \\ \frac{0}{0^+} = +\infty \end{cases}$

ب) $\lim_{n \rightarrow 1} \frac{n-1}{\lfloor n-1 \rfloor} \begin{cases} \frac{0}{0^+} = +\infty \\ \frac{0}{-1} = -\infty \end{cases}$

الف) $\lim_{n \rightarrow 1} \lfloor n \rfloor + \lfloor n \rfloor \begin{cases} 1-1=0 \\ 1-1=0 \end{cases}$

ب) $\lim_{n \rightarrow 1} \lfloor -n \rfloor + \lfloor n \rfloor \begin{cases} 1+1=2 \\ 1+1=2 \end{cases}$

الف) $\lim_{n \rightarrow 1} \lfloor n^2 - n \rfloor = 0$
 $n \rightarrow 1$ $\frac{0}{0} = 0$ $\frac{0}{0} = 0$

ب) $\lim_{n \rightarrow 1} \lfloor 9n - n^2 \rfloor = 8$
 $\max = \frac{-9}{-2} = 4.5 \rightarrow 4$
 $\lfloor 9 - 1 \rfloor = 8$

الف) $\lim_{n \rightarrow 1} \frac{|n-1|}{n^2-3n+2} \begin{cases} \frac{0}{0^+} = \frac{1}{1} = 1 \\ \frac{0}{0^-} = \frac{1}{1} = 1 \end{cases}$

ب) $\lim_{n \rightarrow 1} \frac{n - \lfloor n \rfloor}{n^2-1} \begin{cases} \frac{0}{0^+} = \frac{1}{0^+} = +\infty \\ \frac{0}{0^-} = \frac{1}{0^-} = -\infty \end{cases}$