

درام نورانی

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$$\lim_{a \rightarrow r^+} f(a-c) = d \quad \lim_{a \rightarrow r^-} f(a-c) = d \quad (1)$$

$$\lim_{a \rightarrow r^+} f[a] - c = d \quad \lim_{a \rightarrow r^-} f[a] - c = d \quad (2)$$

$$\lim_{a \rightarrow r^+} [f(a-c)] = d \quad \lim_{a \rightarrow r^-} [f(a-c)] = d \quad (3)$$

$$[\lim_{a \rightarrow r^+} f(a-c)] = d \quad [\lim_{a \rightarrow r^-} f(a-c)] = d \quad (4)$$

$$\lim_{a \rightarrow r} \frac{f(a-c)}{a-r} \begin{matrix} r^+ \\ r^- \end{matrix} \begin{matrix} \frac{a}{0^+} = +\infty \\ \frac{a}{0^-} = -\infty \end{matrix} \quad (5)$$

$$\lim_{a \rightarrow r} \frac{f(a-c)}{(a-r)^2} \begin{matrix} r^+ \\ r^- \end{matrix} \begin{matrix} \frac{a}{0^+} = +\infty \\ \frac{a}{0^+} = +\infty \end{matrix}$$

$$\lim_{a \rightarrow r} \frac{f(a-c)}{\sqrt{a-r}} \begin{matrix} r^+ \\ r^- \end{matrix} \begin{matrix} \frac{a}{0^+} = +\infty \\ \frac{a}{0^+} = +\infty \end{matrix} \quad (6)$$

$$\lim_{a \rightarrow r} \frac{f(a-c)}{\sqrt{2r-a} + r} \begin{matrix} r^+ \\ r^- \end{matrix} \begin{matrix} \frac{a}{0^+} = +\infty \\ \frac{a}{0^+} = +\infty \end{matrix}$$

$$\lim_{x \rightarrow r} \frac{f(x) - r}{x^2 - \sqrt{x+1}} \begin{cases} x^+ & \frac{q}{0^-} = -\infty \\ x^- & \frac{q}{0^+} = +\infty \end{cases}$$

(7)

$$\lim_{x \rightarrow r} \frac{f(x) - r}{[x - r]} \begin{cases} x^+ & \frac{q}{0^+} = \text{نن ز} \\ x^- & \frac{q}{0^-} = -q \end{cases}$$

$$\lim_{x \rightarrow r} [rx] + [-rx] \begin{cases} x^+ & q - \sqrt{x} \\ x^- & 1 - q \end{cases}$$

(8)

$$\lim_{x \rightarrow -q} [-fx] + [rx] \begin{cases} -q^+ & rx - 1 \\ -q^- & rx - 1 \end{cases}$$

$$\lim_{x \rightarrow r} [x^r - fa] \begin{cases} x^+ & -f \\ x^- & -f \end{cases}$$

(9)

$$\lim_{x \rightarrow r} [4x - a^r] \begin{cases} x^+ & 1 \\ x^- & 1 \end{cases}$$

$$\lim_{x \rightarrow r} \frac{|x - r|}{x^2 - \sqrt{x+1}} = \frac{q}{0} \begin{cases} x^+ & \frac{x-r}{(x-r)(x-1)} = \frac{1}{x-1} \\ x^- & \frac{-(x-r)}{(x-r)(x-1)} = -\frac{1}{x-1} \end{cases}$$

(10)

$$\lim_{x \rightarrow 1} \frac{x - [x]}{x^2 - 1} \begin{cases} 1^+ & \frac{1}{1} = 1 \\ 1^- & \frac{1}{0^-} = -\infty \end{cases}$$

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$$\frac{x-1}{(x-1)(x+1)} = \frac{1}{x+1}$$