

$$x \begin{cases} \rightarrow (-2)^+ \Rightarrow y\left[\frac{2+y^-}{2}\right] = y\left[\frac{2}{2}\right] \Rightarrow y(1) = 2 \Rightarrow 2 + a\left[\frac{2}{2}\right] = 2 \\ \rightarrow (-2)^- \Rightarrow y\left[\frac{2+y^+}{2}\right] = y(2) = 1 \Rightarrow 2 + a\left[\frac{2}{2}\right] = 1 - a \end{cases}$$

$$\lim_{x \rightarrow -2} = 2 - a = 2 \Rightarrow a = 2$$

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$$\left[2 \sin\left(\frac{\pi}{2}\right) - 1\right] \Rightarrow \left[2\left(\frac{1}{2}\right) - 1\right] = [0] = -1$$

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$$x \begin{cases} \left(-\frac{1}{2}\right)^+ = \left[\ln\left(-\frac{1}{2}\right)^+ + \frac{1}{2}\right] = \left[-\frac{1}{2}\right] = -1 \\ \left(-\frac{1}{2}\right)^- = \left[\ln\left(-\frac{1}{2}\right)^- + \frac{1}{2}\right] = \left[-\frac{1}{2}\right] = -1 \end{cases}$$

$$\lim_{x \rightarrow -\frac{1}{2}} = -1$$

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$$\frac{-8^- - 8 + \left[\frac{2}{\frac{1}{2}^+}\right]}{(-8)^- - \left[-\frac{2}{\frac{1}{2}^+}\right]} = \frac{-1 \cdot 8^- + [12]}{-8^- + 8^+} = \frac{-1 \cdot 8^- + 12}{0^+} = \frac{1^-}{0^+} = +\infty$$

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$$\frac{\sin n^+}{1 + \cos n^+} = \frac{(0^-)^2}{1 + (-1)^+} = \frac{0^+}{0^+} = +\infty$$

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در این سوال باید دید که آیا این دنباله همگرا است یا نه؟

$$\frac{(r_{n+1}) - (r_n + 1)}{(r)(1+r)} = \frac{-r_{n+1}}{r_{n+1}} = -\frac{r}{r}$$

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$$\frac{(\sqrt{n}-1)(r\sqrt{n}-1)(r)}{r_{n+1}-r_{n-1}} = \frac{(\sqrt{n}-1)(r\sqrt{n}-1)(r)(\sqrt{n+1})}{(n-1)(r_{n+1})(r)} = \frac{r(-r)}{r} = -\frac{1}{r}$$

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$$a + \sqrt{b(a)} + c = 0 \Rightarrow a + \sqrt{c} = 0 \Rightarrow \sqrt{c} = -a \Rightarrow C = a^2$$

$$\frac{a^2 - bn = C}{ran} = \frac{1}{r} \Rightarrow \frac{-bn}{ran} = \frac{1}{r} \Rightarrow \frac{-b}{ra} = \frac{1}{r} \Rightarrow a = -rb$$

$$\Rightarrow \begin{cases} b = -\frac{a}{r} \\ C = a^2 \end{cases} \Rightarrow \frac{a(-\frac{a}{r})}{a^2} = -\frac{1}{r}$$

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$$\frac{\tau + k \left[\frac{-rn}{n} \right] \cos(-r)}{\sin(-rn)} = \frac{\tau - rk}{0^+} = +\infty$$

$$\frac{\tau + k \left[\frac{-rn}{n} \right] \cos(-r)}{\sin(-rn)} = \frac{\tau - rk}{0^-} = +\infty$$

$$\left\{ \begin{array}{l} \tau - rk > 0 \Rightarrow rk < \tau \\ \tau - rk < 0 \Rightarrow rk > \tau \end{array} \right. \Rightarrow \frac{rk}{\tau} < 1$$

$$-rk < -\frac{\tau}{r} \Rightarrow [-k] = -\frac{\tau}{r}$$

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