

Viana

subject:

Year:

Month:

Date:

$$f(x) = \frac{4a}{a+1} = f(1) + b = 1 \quad b = -1 \quad f'(x) = \frac{1-a^x}{(a+1)^x} = 1$$

$$\frac{1-a}{a+1} = 1 \quad 1-a+1 = 1-a \quad a = -\frac{1}{1}$$

$$a - b = \frac{1}{1} \quad \text{P}$$

$$\sin x + \frac{1}{x} \cos x = \frac{1}{x} \sin x \quad \frac{1}{x} \cos x = \frac{1}{x} \sin x \quad x \in [0, \pi]$$

$$x = \frac{\pi}{2} \quad f\left(\frac{\pi}{2}\right) = \frac{\sqrt{1}}{1} - \frac{\sqrt{1}}{1} = \frac{\sqrt{1}}{1} \quad f\left(\frac{\pi}{2}\right) = \frac{\sqrt{1}}{1} + \frac{\sqrt{1}}{1}$$

$$y = 0 \rightarrow x = \frac{\frac{\sqrt{1}\pi}{1} - \frac{\sqrt{1}}{1}}{\frac{\sqrt{1}}{1}} = \frac{\pi}{2} \quad \text{P}$$

$$f(x) = 4x^2 - 4x - 1 = 0 \quad \therefore 4x^2 - 4x - 1 = 0$$

$$a+c=b \begin{cases} m = -1 & A(-1, 1) \\ n = 1 & B(1, -1) \end{cases} \quad g = \frac{-1-1}{1-(-1)} = \frac{-2}{2} = -1 \quad AB \text{ سب}$$

$$f'(x) = -1 \quad f'(x) = -1 \quad 4x^2 - 4x - 1 = -1$$

$$4x^2 - 4x - 1 = 0 \quad \Rightarrow \dots \quad \text{P}$$

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$$\frac{-b}{\mu a} - \frac{(k+1)}{\mu k} - \frac{-(k+1)}{\mu k} < 0 \quad \frac{-1}{0} > 0 \quad \checkmark$$

$$k < -1 \quad k > 0 \quad f(m) = \mu^m (k\mu + k + 1) \left(\frac{-b}{\mu a} \right) > 0$$

$$\left(\frac{-k-1}{\mu k} \right) \left(\frac{-k-1}{\mu} + k + 1 \right) > 0 \quad \left(\frac{-k-1}{\mu k} \right) \left(\frac{\mu k + 1}{\mu} \right) > 0$$

$$\frac{\mu k + 1}{\mu} > 0 \quad k > -1 \quad \text{I II} = \emptyset \quad \text{Killing process}$$

$$f(m) = \mu^m a^m + \mu a m + b \quad f(-1) = \mu - \mu a + b = 0 \quad -\mu a + b = -\mu$$

$$f(-1) = -1 - a - b - 1 = -2 \quad a - b = -2 \quad (110)$$

$$a - b = -2$$

$$-\mu a + b = -\mu \quad -a = -a \quad a = a \quad \omega \quad -b = -2 \quad b = 2$$

$$\frac{a}{b} = \frac{\omega}{V}$$

$$f(0) = \mu \rightarrow C = \mu \quad f(0) = 0 \quad f(m) = \mu^m a^m + \mu a m + b$$

$$m=0 \rightarrow f(0) = \mu \quad b = 0 \quad f(m) = \mu^m a^m + \mu a m$$

$$f(m) = \mu^m (k\mu + k + 1) = 0 \quad m=0 \quad m = \frac{-\mu a}{\mu}$$

$$f\left(\frac{-\mu a}{\mu}\right) = 0 \quad \frac{-\mu a}{\mu} \mu + a \left(\frac{-\mu a}{\mu}\right) + \mu = 0$$

$$\frac{-\mu a \mu}{\mu V} + \frac{\mu a \mu}{\mu} + \mu = 0 \quad \frac{\mu a \mu}{\mu} = -\mu \quad a \mu = -\mu V \quad a = -V$$

$$\frac{-\mu a}{\mu} = -V \quad \checkmark \quad \text{Killing process}$$

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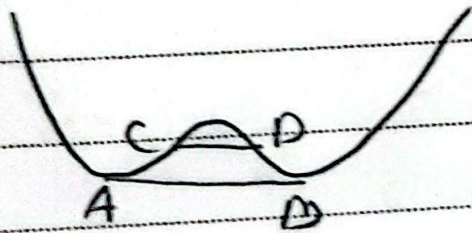
$$f'(n) = 12n^2 - 12n = 12n(n-1) \quad \frac{-\sqrt{12} \quad 0 \quad \sqrt{12}}{-12 \quad -12 \quad 12}$$

$$f''(n) = 24n - 12 = 12(2n - 1) \quad f'(n) = 0 \quad n = \pm 1$$

$n = \pm 1$ طول نقاط min نسبی است $n = \pm 1$ طول نقاط کسب

تابع زوج است پس به ازای دو طول قریب یک n من می رود پس به ازای

مستطای AB و CD هر دو پارچه های افقی و زاویه بین آنها صفر است



۲

$$\lim_{n \rightarrow 0^+} \frac{f(n)}{n} = 0 \rightarrow \lim_{n \rightarrow 0^+} \frac{\cos^v(xn) + an^v + b}{n} = 0 \rightarrow \lim_{n \rightarrow 0^+} \frac{1+b}{n} = 0 \quad -1$$

$\hookrightarrow \boxed{b = -1}$

$$\lim_{n \rightarrow 0^-} \frac{f'(n)}{n} = v = \lim_{n \rightarrow 0^-} \frac{-v \sin(xn) \cos^v(xn) + van}{n} = v \quad \text{L'Hôpital}$$

$$\lim_{n \rightarrow 0^-} \frac{(-v \times vn) + van}{n} = v \rightarrow va - v^2 = v \rightarrow va = v^2 + v \rightarrow \boxed{a = v}$$

$$a + b = v - 1 = 4$$

$$\text{für } x = -\frac{b}{va} = -\frac{a}{v} \rightarrow x = -\frac{a}{v} \rightarrow \frac{-a}{v} = -1 \rightarrow \boxed{a = v}$$

$$f(-1) = -2 \rightarrow -1 + v - b - 1 = -2 \rightarrow \boxed{b = -1}$$

$$\left. \begin{array}{l} \\ \end{array} \right\} \frac{a}{b} = \frac{v}{-1} \quad \underline{\wedge}$$