

A - فرض

تأليف

19

سورة نازي طبا

$$g(m) = f(\tan m + \sqrt{r} \cos a) \text{ و } g\left(\frac{r}{k}\right) = \sqrt{r}$$

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$$g'(a) = (r \tan m \times \frac{1}{\cos^2 m} - \sqrt{r} \sin a) f'(\tan m + \sqrt{r} \cos a)$$

$$g\left(\frac{r}{k}\right) = (r \times 1 \times r - 1) f'(1+1) = r f'(r) = \sqrt{r} \Rightarrow f'(r) = \frac{\sqrt{r}}{r}$$

1

$$f'\left(\frac{r}{k}\right) - r g'\left(\frac{r}{k}\right) \Rightarrow (f - r g)' \left(\frac{r}{k}\right) \Rightarrow \sin\left(\frac{\sqrt{r}}{k}\right) = -\frac{1}{r}$$

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$$\boxed{-\frac{1}{r}}$$

$$\frac{1 + \cos^2 m}{r - \cos^2 m} - \frac{r}{r - \cos^2 m} = \frac{1 + \cos^2 m - 1 - r \cos^2 m}{r - \cos^2 m} = \frac{\cos^2 m (\cos^2 m - r)}{(r - \cos^2 m) (r + \cos^2 m)} = -\cos m$$

$$\Rightarrow \int \cos m \, dm \rightarrow -(-\sin m) = \sin m$$

$$f(m) = |r_m - r| \sqrt{a_m}$$

$$(m = \frac{r}{k}) \rightarrow 1 \sqrt{a_m} = r \sqrt{r}$$

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$$\left(\frac{r}{k}\right)^+ \rightarrow (r_m - r) \sqrt{a_m} \xrightarrow{\text{L'Hôpital}} r \sqrt{a_m} + \frac{a}{r \sqrt{a_m}} \times 0 = r \sqrt{a_m}$$

$$1 \sqrt{\frac{r}{k}} a = r \sqrt{r}$$

$$\left(\frac{r}{k}\right)^- \rightarrow (-r_m + r) \sqrt{a_m} \rightarrow -r \sqrt{a_m} + \frac{a}{r \sqrt{a_m}} \times 0 = -r \sqrt{a_m}$$

$$\Rightarrow a = \frac{1}{r}$$

1

$$y = -a_m + r$$

$$f(m) + f'(m) = -1$$

$$(m = r)$$

$$f'(r) = -a = -0.1$$

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$$f(n) + f'(n) = -1 \quad (n \geq k)$$

$$f'(x) = -\alpha = -0.19$$

$$-K_0 + P - \alpha_n - 1 \rightarrow P - \alpha_n - 1 \rightarrow \alpha_n = 19$$

$$\begin{array}{c} \downarrow \\ \textcircled{\gamma} \\ \frac{\alpha_n - 1}{\mu_n + 1} \end{array}$$

$$\frac{a(r_{n+1}) - r(a_{n-1})}{(r_{n+1})^r} = \frac{1}{V} \Rightarrow \frac{r+a}{(r_{n+1})^r} = \frac{1}{V} \Rightarrow a_{n+1} + r + 1 = \sqrt[r]{a+r+1}$$

$$q_m^r + q_m + 1 - r_1 - v_a = 0 \implies q_m^r + q_m - r_0 - v_a = 0 \quad \Delta = 0 \implies r_0 y - c_x q_x (-r_0 - v_a) = 0$$

$$-Y_0 - \sqrt{a} = 1 \Rightarrow \underline{\underline{a = -\frac{1}{2}}}$$

(جواب سائیں صفحہ)

$$f'(a) = r_n + a$$

$$\rightarrow a = -17, b = -14$$

$$b-a = -19 + 17 = -2$$

وقتی بر محور m ها عمود است، $\alpha = m$ خورایع، امضای اند و مستطی، انترصفی اند

$$\lim_{n \rightarrow \infty} \frac{f(n) f'(n)}{(1 - \cos a)^n} = \sqrt{p} \sqrt{p}$$

$$\sin^n(a) \approx a^n \xrightarrow{\text{Diffeo}} P_n a^{P_n-1}$$

$$\frac{\text{Sift} \rightarrow a_n^{r_n} \times r_n a_{n-1}}{\left(\frac{a_n^{r_n}}{r_n}\right)_m} = r_n \times r_n^m \times a_{n-1-m}$$

$$\begin{aligned} \rightarrow & \text{ } \circ = n(n-1) \\ \swarrow & n \times r \times r^m = r^{n+m} \end{aligned}$$

$$\left. \begin{array}{l} n \\ n \\ n \end{array} \right\}$$

$$r_m + n = 9$$

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

$$(f^{-1}(r))' = ?$$

$$\frac{f'(q)}{f'(q)} = \frac{1}{\frac{1}{r}} = -\frac{1}{r}$$

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

$$f'(n) = \frac{1}{\sqrt{n}} - \frac{r}{\sqrt{n}} \Rightarrow f'(q) = -\frac{1}{r^2} = -\frac{1}{r}$$

$$f(n) = (n^r+1)^r (n+1)$$

$$\frac{f(0) - f(-1)}{0 - (-1)} = f(0) - f(-1) = 1 - n(-n+1) = n^2 - n = -1$$

$$-r = 1$$

$$f'(1) = r(rn)(n^r+1)^r \left(-\frac{1}{r} + 1 \right) + \left(-\frac{1}{r} \right) (n^r+1)^r = 1r - r = 0$$

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$$f(n) = \sin n \cos rn$$

$$g(n) = (\sin^r n - \cos^r n) (\sin^r n + \cos^r n)$$

$$\Rightarrow \frac{f(\frac{\pi}{2}) - f(\frac{\pi}{2})}{g(\frac{\pi}{2}) - g(\frac{\pi}{2})} = \frac{-1 - 0}{1 - 0} = -1$$

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سوال ۱۵

$$\frac{ax-1}{x^2+1} = \frac{x}{V} + \frac{a}{V} \rightarrow V(ax-1) = x(x^2+1) + a(x^2+1)$$

$$\rightarrow Vax - V = x^3 + x + ax^2 + a \rightarrow x^3 + (1-Va)x + 1x = 0 \xrightarrow{\Delta=0} (1-Va)^2 - 1(1)(1) = 0 \rightarrow \begin{cases} a = \frac{F}{V} \\ a = F \end{cases}$$

$$x^3 + (1-Va)x + 1x \xrightarrow{\text{نیز}} x = \frac{-b}{1a} = \frac{-1 \pm Va}{1} \rightarrow \begin{cases} a = F \rightarrow x = 1 & \checkmark \\ a = \frac{F}{V} \rightarrow x = -1 & \times \end{cases}$$