

نام و نام خانوادگی: پاسخنامه تشریحی تکلیف شماره ۲۲... کلاس ... در روز ...

نقطه‌ای که تابع در آن مشتق ناپذیر است $\rightarrow$ $b - a = 1 \rightarrow a = \frac{1}{b}$

$f'(x) = \begin{cases} \sqrt{x} & x < 1 \\ b x^{\frac{1}{b}} & x \geq 1 \end{cases} \Rightarrow f'_+(1) = f'_-(1) \Rightarrow \frac{a+b}{2}$

$f(x) = \begin{cases} \frac{x^2 - 1}{\sqrt{x}} & x \geq 1 \\ \frac{1 - x^2}{\sqrt{x}} & x < 1 \end{cases} \rightarrow f'(x) = \frac{-2\sqrt{x} - (-2x + 1)(\frac{1}{2\sqrt{x}})}{x\sqrt{x}}$

$g'(x) = \frac{(-1 + \frac{1}{\sqrt{x}})(\frac{1}{\sqrt{x}}) - (1 - x + \sqrt{x})(\frac{1}{2\sqrt{x}})}{x\sqrt{x}} \Rightarrow g'(1) = -\frac{\sqrt{3}}{4} - \frac{5}{3}$

$\frac{1}{a} \leq b + c \Rightarrow \frac{1}{a} \leq c \Rightarrow a \leq c$

$b \leq \frac{1}{a^2}$

$f'(x) = \begin{cases} 0 & x < a \\ m(x-a)^{m-1} & x \geq a \end{cases}$

$f'_+(a) \neq 0 \Rightarrow m(a-a)^{m-1} \neq 0$

$m-1 \leq 0 \Rightarrow m \leq 1$

از طرفی: $m \geq 0$

$m \in [0, 1]$ دو مقدار $\rightarrow$ $m = 0$ و $m = 1$

$(f \circ g)'(1 - \sqrt{2})$

$f \circ g(x) = \frac{1}{\sqrt{\frac{1}{x^2 - 1} - \frac{1}{x^2 - 4x^2}}}$

$f \circ g'(x) = 1$

$$-a + \sqrt{a} + \delta, r \Rightarrow a = -\frac{r}{r}$$

$$\frac{-\sqrt{a} - \delta}{-a} = ? \rightarrow \frac{\sqrt{a} + \delta}{a} = \frac{-\frac{1}{r} + \delta}{-\frac{r}{r}} = \frac{\frac{1}{r}}{\frac{-r}{r}} = \frac{1}{-r} = -\frac{1}{r}$$

$$g'(n) \times f'(g(n)) : \rightarrow g'(\frac{r}{\sqrt{n}}) \times f'(r) \rightarrow r\sqrt{r} \times f'(r) \rightarrow 128\sqrt{r}$$

$$g'(\frac{r}{\sqrt{n}}) = \frac{1}{\sqrt{\frac{r}{n}}} = \frac{\sqrt{n}}{\sqrt{r}} = \frac{r}{r} = 1$$

$$g'(n) = \frac{r_n}{r\sqrt{n-1}} \Rightarrow g'(\frac{r}{\sqrt{n}}) = \frac{\frac{r\sqrt{r}}{r}}{\frac{r}{r}} = r\sqrt{r} \Rightarrow f'(r) = 4r$$

$$g'(n) = f'(n+1) + r f'(n+1)$$

$$g'(-r) = f'(-1) + r f'(-1) = r f'(-1) = r \times \frac{r}{r} = r$$

في البداية

$$\lim_{h \rightarrow 0} \frac{-r f(\delta-h) f'(\delta-h) + r f'(\delta-h)}{\delta - rh} = \lim_{h \rightarrow 0} \frac{-r f(\delta) f'(\delta) + r f'(\delta)}{\delta}$$

$$f(\delta) = r$$

$$f'(n) = \frac{r}{\sqrt{n+1}} + \frac{n-r}{r\sqrt{n+1}} \Rightarrow f'(\delta) = \frac{1}{12} = \frac{r\delta}{12}$$

$$4y = n+1 \Rightarrow y = \frac{1}{4}n + \frac{1}{4} \Rightarrow \frac{y}{n} = \frac{1}{4}$$

$$r_{n-1} = -r \Rightarrow n = 1$$

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$$\text{نقطه کوفی} \rightarrow \phi_+(a) = \phi_-(a)$$

$$m=0 \rightarrow \text{مشتق هر ضربه است} \quad \times$$

$$m=1 \rightarrow \phi'_-(a) = 0, \quad \phi'_+(a) = 1 \quad \checkmark$$

$\rightarrow$

$$m=1$$

$$> 2 \rightarrow \phi'_-(a) = 0, \quad \phi'_+(a) = m(\underbrace{n-a}_{a-a=0})^{m-1} \quad \times$$

$$(\phi \circ g)' = g'(\frac{r}{\sqrt{\lambda}}) \times \phi'(g(\frac{r}{\sqrt{\lambda}}))$$

$$g(\frac{r}{\sqrt{\lambda}}) = \frac{1}{\sqrt{\frac{q}{\lambda} - 1}} = r \rightarrow g'(\frac{r}{\sqrt{\lambda}}) \times \phi'(r)$$

$$g'(\frac{r}{\sqrt{\lambda}}) = -\frac{1}{r} (n^r - 1)^{-\frac{r}{r}} \times rn = \frac{q}{\sqrt{\lambda}} \times -\frac{1}{r} \times (\frac{q}{\lambda} - 1)^{-\frac{r}{r}} = -\frac{r}{\sqrt{\lambda}} \times (r^{-r})^{-\frac{r}{r}}$$

$$= -\frac{r^{\Delta} \times \sqrt{r}}{r} = -\lambda \sqrt{\lambda}$$

$$\phi(n), n=2 \rightarrow \phi(n) = n[\varepsilon]_{+1}^r = n n_{+1}^r \rightarrow \phi'(r) = r r(r) = 4r$$

$$\frac{-\lambda \sqrt{r} \times 4r}{-1 \times \lambda \sqrt{r}} = r$$