

نام و نام خانوادگی علی حسین محمد پاسخنامه تشریحی تکلیف شماره ۲۲ کلاس دوازدهم ب

شرط هوشی = مقدار ضایع‌ی باقی = مقدار ضایع‌ی باقی = عدد تابع در این نقطه

$$a+1=b \Rightarrow \boxed{b-a=1}$$

مستحق بزرگوارترین ^{مستحق} و ^{مستحق} (الست) ^{مستحق} و ^{مستحق} هر چه ^{مستحق} فقط در مقامی است که اینگونه هست.

$$f'_{-}(a) \Rightarrow \lim_{x \rightarrow a^{-}} \frac{f(x) - f(a)}{x - a} \Rightarrow \frac{a + |a| - a - 1}{a - 1} \xrightarrow{a \rightarrow 0} \frac{a + a - a - 1}{a - 1} = 1 \Rightarrow f'_{-}(a)$$

$$f'_+(u) \Rightarrow \frac{1}{u} \rightarrow b \sqrt[4]{u} \rightarrow b \cdot u^{\frac{1}{4}} \Rightarrow \frac{1}{4} \cdot \frac{1}{u^{\frac{3}{4}}} \neq 1 \Rightarrow \frac{1}{4} \neq 1 \Rightarrow \boxed{a+b=1}$$

$$(f \cdot g)'(1) \quad \underline{f - g} = \frac{x|x| - x}{\sqrt{x^2}} - \frac{x|x| + x\sqrt{x}}{\sqrt{x^2}}$$

$$(f \circ g)' \Rightarrow \frac{\sqrt{x}}{x} \xrightarrow{x=\frac{1}{4}} (f \circ g)'(1) \Rightarrow \frac{\sqrt{\frac{1}{4}}}{\frac{1}{4}} \rightarrow \text{ju}$$

$$f - g = \frac{-\sqrt{x}}{\sqrt{x}} \Rightarrow \frac{-\sqrt{x} x}{\sqrt{x}} \Rightarrow -\sqrt{x} x^{-\frac{1}{2}}$$

$\lim_{a \rightarrow 1} f(a) = \frac{b+1}{1} = \frac{1+1}{1} = \frac{2}{1} = 2$

$$f'(x) = \begin{cases} b & x > a \\ -\frac{1}{xr} & x \ll a \end{cases} \quad \begin{matrix} f'_-(a) = b \\ f'_+(a) = -\frac{1}{ar} \end{matrix} \rightarrow \frac{-1}{ar} = b \rightarrow arb = -1$$

8. (f o g)'(-\sqrt{r})

$$f \circ g(n) \rightarrow f(g(n)) \rightarrow f\left(\frac{1}{r_{2^k}}\right) \Rightarrow \frac{1}{\sqrt[r_2]{r_2 \frac{1}{r_{2^k}}}} \Rightarrow \frac{1}{\frac{1}{r_2}} \Rightarrow n = \frac{1}{r_2} \Rightarrow \text{Game 0}$$

$\textcircled{B} = \sum_i w_i$

$$f(x) = -\frac{1}{3}x - a$$

$$f'(x) = -\frac{1}{3} \leftarrow \text{مشتق ضوابط } f$$

$$-a + \frac{1}{3}a + a = 2 \Rightarrow \frac{2}{3}a = 2 \Rightarrow a = 3 \Rightarrow -\frac{1}{3} \Rightarrow -\frac{1}{3}$$

$$y = \frac{1}{3}x - a$$

$$f(x) \rightarrow \frac{1}{3} \Rightarrow \frac{-\frac{1}{3}}{\frac{1}{3}} = -1 \rightarrow \text{بافتتاحی نقطه}$$

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$$(f \circ g)'(x) = g'(x) \times f'(g(x)) \rightarrow (f \circ g)'(\frac{1}{\sqrt{2}}) = g'(\frac{1}{\sqrt{2}}) \times f'(g(\frac{1}{\sqrt{2}})) \Rightarrow$$

$$\Rightarrow -\sqrt{2} \times 4\epsilon \quad g(x) = \frac{1}{2}(x^2 - 1) \Rightarrow g'(x) = \frac{1}{2}(2x) = x \Rightarrow g'(\frac{1}{\sqrt{2}}) = \frac{1}{\sqrt{2}}$$

$$\frac{1}{\sqrt{2}} \left(\frac{1}{\sqrt{2}} \right) \left(\frac{1}{2} \right)^{\frac{1}{2}} \Rightarrow \frac{1}{\sqrt{2}} \times \frac{1}{2} \Rightarrow x = \frac{1}{2} \rightarrow f(x) = \frac{1}{2}(x^2 - 1) + 1 = \frac{1}{2}x^2 + \frac{1}{2} \rightarrow$$

$$\rightarrow f'(x) = x \Rightarrow f'(\frac{1}{2}) = \frac{1}{2} \Rightarrow \frac{-\sqrt{2} \times 4\epsilon}{-\frac{1}{2} \times \sqrt{2}} \Rightarrow 8\epsilon \rightarrow \text{بافتتاحی نقطه}$$

$$g'(x) = 1 \times f'(x+1) + 3f'(x+1) \Rightarrow g'(-2) = f'(-1) + 3f'(-1) = 4f'(-1)$$

$$T = a \quad f(x+a) = f(x) \frac{\text{مشتق بلبر}}{\text{مشتق بلبر}} \quad f'(x+a) = f'(x) \xrightarrow{a=1} f'(x) = f'(-1) \Rightarrow f'(-1)$$

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$$\frac{2x - f'(a-h) \times f(a-h) + 3f'(a-h)}{h \times (a-h)} \Rightarrow \frac{-f'(a) \times 2 + 3f'(a)}{2 \times 2h} \Rightarrow \frac{-f'(a)}{2}$$

$$\frac{-\frac{1}{12} \times \frac{1}{2}}{\frac{1}{12}} \Rightarrow \frac{-\frac{1}{24}}{\frac{1}{12}} \Rightarrow -\frac{1}{2}$$

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$$f(x) = 2 \quad f'(x) = (x-2) \sqrt{x+3} \Rightarrow \frac{1}{\sqrt{x+3}} + \frac{1}{3\sqrt{(x+3)^3}} \Rightarrow \frac{1}{\sqrt{x+3}} + \frac{1}{3} \Rightarrow \frac{2}{\sqrt{x+3}}$$

$$x^2 - 2x + a = 2x - 2 \Rightarrow x^2 - 4x + a = -2 \Rightarrow x^2 - 4x + a + 2 = 0 \Rightarrow x = 2 \Rightarrow a = -2$$

$$4y - 3x = 1 \Rightarrow y = \frac{3x+1}{4} \Rightarrow y = \frac{1}{4}x + \frac{1}{4} \Rightarrow \text{مشتق بلبر} \Rightarrow \frac{1}{4}$$

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$$(1)^2 - 2 + a = 2 \Rightarrow a = 1 \rightarrow \text{بافتتاحی نقطه} \rightarrow \text{بافتتاحی نقطه}$$