

11, 2.

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لکھنے کی ضرورت

سوچیں: $a+1=b \Rightarrow$  $\Rightarrow \frac{x}{|x|} = \frac{1}{\sqrt[3]{x^2}} \xrightarrow{x=1} b = \frac{1}{1} = 1, a = \frac{1}{1} \rightarrow a+b=2$

$g(x) = \frac{|x-1| + \sqrt{x}}{\sqrt{x^2}}$ $\Rightarrow g'(x) = \frac{(-1 + \frac{1}{\sqrt{x}})(1) - (\frac{1}{\sqrt{x}})(0)}{(\sqrt{x^2})^2} = \frac{-1 + \frac{1}{\sqrt{x}}}{x^2}$

$f'(x) \xrightarrow{\text{قدر و مقام}} \frac{(-1)(1) - (\frac{1}{\sqrt{x}})(0)}{(\sqrt{x^2})^2} \rightarrow \begin{cases} f'(1) = -\frac{1}{1} \\ g'(1) = -1 - \frac{1}{1} = -2 \end{cases}$

$f'(1) - 2g'(1) = -1 - 2(-2) = -1 + 4 = 3$

سوچیں: $ba+c = \frac{1}{a}, b = -\frac{1}{a^2}$

$\Rightarrow a(-\frac{1}{a^2}) + c = \frac{1}{a} \rightarrow c = \frac{1}{a} + \frac{1}{a} = \frac{2}{a} \rightarrow ac = 2$

سوچیں: $\lim_{m \rightarrow a^+} f(m) = b, f(a) = b + 0^m \Rightarrow m \neq 0$

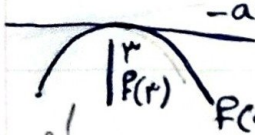
$m \geq 1 \rightarrow f(a) = 0, (f'_-(a) = 0) \neq (f'_+(a) = m(a-a)^{m-1})$

$m=1 \rightarrow f'_+ = 1 \neq 0 \checkmark, m \geq 2 \rightarrow f'_+(a) = m \times 0^{m-1} = 0 = f'_-(a)$

بس فقط یہ مقدار $m=1$ قابل قبول ہے

$(fog)'(-\sqrt{2}) = ? \Rightarrow fog = \frac{1}{\sqrt[3]{x^3 - |x^3| - |x^3| - |x^3|}} \xrightarrow{\text{قرعہ}} \frac{1}{\sqrt[3]{4x^3}} = \frac{1}{x\sqrt[3]{4}}$

$\Rightarrow (fog)'(x) = \frac{-\sqrt[3]{4}}{(x\sqrt[3]{4})^2} \xrightarrow{x=-\sqrt{2}} \frac{-\sqrt[3]{4}}{(-\sqrt{2}\sqrt[3]{4})^2} = -\frac{1}{\sqrt{2}}$

 $f'(x) = -a \rightarrow f(x) = -ax - a$
 $f(x) = -ax - a \rightarrow -a - 2 = -2a - a \rightarrow a = -\frac{2}{3}$
 $\frac{f(x)}{f'(x)} = -\frac{1}{3}$
 $\begin{cases} f'(x) = \frac{1}{3} \\ f(x) = -\frac{1}{3} \end{cases}$

$$f'(g(\frac{r}{\sqrt{r}})) \times g'(\frac{r}{\sqrt{r}}) = ? \quad g(\frac{r}{\sqrt{r}}) = r, \quad g'(x) = \frac{rx}{(\sqrt{rx-1})^3} \quad -V$$

$$\rightarrow x = \frac{r}{\sqrt{r}} \rightarrow g'(\frac{r}{\sqrt{r}}) = \frac{14}{\sqrt{r}} = 14\sqrt{r}$$

$$f'(r) \times 14\sqrt{r} = ? \rightarrow f(x) = 14x^r + 1 \rightarrow f'(x) = 14rx \rightarrow f'(r) = 14r$$

$$f \circ g' = 14 \times 14\sqrt{r} \xrightarrow{\div 14 \times 14\sqrt{r}} 1$$

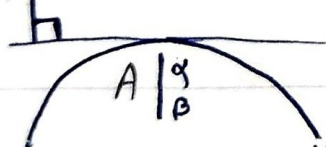
$$g'(n) = f'(n+1) - r f'(rx+10) \xrightarrow{x=-r} f'(-1) + r f'(r) = 4 \quad -A$$

$$\text{Hop: } \frac{rf(\omega-h) \times f'(\omega-h) \times -1 + rh}{h=0} \rightarrow \frac{-rf(\omega)f'(\omega)}{\omega} = ? \quad -9$$

$$f(\omega) = r, \quad f'(x) = \sqrt[3]{x+r} + (x-r)\left(\frac{1}{r\sqrt[3]{(x+r)^2}}\right) \xrightarrow{x=\omega} f'(\omega) = \frac{r\omega}{1r}$$

$$? = \frac{r}{\omega} \times r \times \frac{r\omega}{1r} = \frac{-\omega}{r}$$

$$ay - tx = 1$$



$$y = x^2 - tx + \omega \quad \text{so } \frac{dy}{dx} = \frac{1}{r} \rightarrow \frac{dy}{dx} = -r \quad -10$$

$$rx - t = -r \rightarrow \alpha = 1, \beta = r \rightarrow A \mid r$$