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A | 0
B | 3

$$\Rightarrow m_{AB} = \frac{0-1}{3} = \frac{-1}{3} = f'(3)$$

A | -1
B | 2 $\Rightarrow m_{AB} = \frac{1}{3}$

$$\sqrt{a_{n-1}} = \frac{1}{3}n + \frac{2}{3} \rightarrow 3\sqrt{a_{n-1}} = n + 2$$

$b = 1 - 9a$ $\Delta = 0$
 $-10 \leftarrow n^2 + (1-9a)n + 2a = 0$
 $a = -\frac{2}{9}$ $9 \cdot 2$
 $f(m) = \sqrt{3m-1} \Rightarrow f(1) = 2$

$y = \frac{1}{3}n + \frac{2}{3}$

$$y = \frac{2x^2 + m_{n+1}}{n+3} \rightarrow y' = \frac{(2+m)x - (1+n+1)}{3} = \frac{2}{3}$$

$2(m+2) = 2 - m = 2 \rightarrow m = 2$

$y = \frac{2x^2 + 2_{n+1}}{n+3} \xrightarrow{n=1} \frac{1+4}{1+3} = 1 = \frac{2}{3+1} \rightarrow h=1$

$m + 2 = 2 \Leftrightarrow$ جواب

$$g(m) = \frac{2}{3 + \sin m} \rightarrow g'(m) = \frac{-2(\cos m) \cdot \frac{d(\sin m)}{dm}}{(3 + \sin m)^2} = \frac{-2 \cos m}{(3 + \sin m)^2} = \frac{-2}{(3 + \sqrt{3})^2} = \frac{-2}{(4 + \sqrt{3})^2}$$

$$f(m) = \frac{2\sqrt{3} - \sin^3 m}{2 \sin^2 m} = \frac{\sin^2 m + 2\sin m + 2}{2 + \sin m} \rightarrow f'(m)$$

$2g'(2\pi/3) - f'(2\pi/3) = \frac{1+2\sqrt{3}}{2\sqrt{3}} \Leftrightarrow \frac{-2\sqrt{3}}{(4-\sqrt{3})^2} - \frac{2\sqrt{3}}{(4-\sqrt{3})^2}$

$g'(m) \cdot f(g(m)) = (f \circ g)'(m)$ } $g(m) = \frac{1}{3m^2}$
 $f(m) = \frac{1}{3m^2}$

وفات حضرت معصومه سلام الله عليها (۲۰۱ هـ ق) - شهادت پنجمین شهید محراب آیت الله اشرفی اصفهانی به دست منافقان (۱۳۶۱ هـ ش) - روز جهانی استاندارد

$-1 \leftarrow$ منق $-m = f\left(\frac{1}{3m^2}\right) = f \circ g(m)$

$$g(m) = \frac{f(m)-1}{m} = \frac{1 + \sin^2 - 2 \sin - 1 - \sin^2 + 2 \sin}{(1 + \sin^2 + 2 \sin)m} \quad \text{④}$$

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$$\Rightarrow \lim_{m \rightarrow 0} \frac{-2 \sin m}{(1 + \sin^2 + 2 \sin)m} \rightarrow \sin m \sim m$$

$$\star \Rightarrow \lim_{m \rightarrow 0} \frac{-2m}{(1 + m^2 + 2m)m} = -2 \quad \text{⑤}$$

$$f(m) = -m^2 - 1 \xrightarrow{f'(m)} -2m \quad f'(z) \times f'(-z) = 1 \quad \text{⑥}$$

$$f(z) = f(-z) = -z^2 - 1 = \frac{-a}{r} \rightarrow y = -\frac{a}{r}$$

$$\text{①, ②} = \left| \frac{-a}{r} \right| \text{ Mod } \leftarrow$$

$$f(m) = \sqrt[m]{m} (m^2 + 3) = \ln m = 1 \cdot m \frac{1}{m} + 3 \cdot m \frac{1}{m}$$

$$f'(m) = 2 \cdot m^{\frac{1}{m}-1} + 3 \cdot m^{-1} \rightarrow 1 \cdot m^{\frac{1}{m}-1} - 3 \cdot m^{-2} = 0 \quad \text{⑦}$$

$$m = 27 \times \left(\frac{1}{27}\right)^{\frac{1}{3}} + 3 \times \left(\frac{1}{27}\right)^{\frac{1}{3}} = \boxed{1\sqrt{27}} \star$$

$\sqrt[m]{m} (m^2 + 3) = 0$
 $\sqrt{m} = 0$
 $m = 0$
 $\frac{1}{m} = \frac{1}{0}$

$$\sqrt{m} = t$$

$$\text{⑧} \quad f(m) = \frac{t}{-t^2 + t^2 + 1} = 9t^2 \xrightarrow{\text{سنت}} -9(10t^2 - 3t^2 - 1) = 0$$

$$\star f\left(\frac{1}{9}\right) = \frac{1}{9} \div \left[-\frac{2}{9} + \frac{1}{9}\right] = \frac{1}{9} \leftarrow \begin{matrix} t^2 = -\frac{1}{9} \\ t = \frac{1}{3} \end{matrix} \quad \text{⑨}$$

$$(f \circ g(m))' = g'(m) \times f'(g(m)) \quad \text{⑩}$$

$$g(m) = (m^2 - 1)^{\frac{1}{2}} \rightarrow g'(m) = \frac{1}{2} (m^2 - 1)^{-\frac{1}{2}} \times 2m = -\sqrt{m}$$

$$m \rightarrow 2^+ \rightarrow [] \Rightarrow 2 \quad f(m) = (2m)^{\frac{1}{2}} = 1 \cdot 2m \star$$

$$f'(g(\frac{\sqrt{a}}{2})) \times g'(\frac{\sqrt{a}}{2}) = 1 \cdot 2 \times \frac{1}{2\sqrt{2}} = \frac{1}{\sqrt{2}} \star$$

$$\star \star \star \quad f(m) = f'(2^+) = \frac{1}{\sqrt{2}} \star \star \star$$