

$A | -1 \Rightarrow m_{AB} = \frac{1}{\sqrt{3}}$  (۲) (۳)  
 $B | \sqrt{3}$   
 $\sqrt{a_{n-1}} = \frac{1}{\sqrt{3}} n + \frac{\sqrt{3}}{\sqrt{3}} \rightarrow \sqrt{3} \sqrt{a_{n-1}} = n + \sqrt{3}$   
 $b = 1 - 9a \quad \Delta = 0 \rightarrow n^2 + (1-9a)n + 9a = 0$   
 $a = -\frac{2}{9} \quad \Delta = 0$   
 $y = \frac{1}{\sqrt{3}} n + \frac{\sqrt{3}}{\sqrt{3}}$   
 $f(m) = \sqrt{3} \sqrt{m-1} \Rightarrow f(a) = \sqrt{3}$

$y = \frac{2x^2 + m_{n+1}}{n+3} \rightarrow y' = \frac{(2+m)x - (1+n+1)}{n+3} = \frac{\sqrt{3}}{\sqrt{3}}$  (۳)  
 $\sqrt{3}(m+2) = 2 - m = 1 \rightarrow m = 1$   
 $y = \frac{2x^2 + 2m+1}{n+3} \xrightarrow{m=1} \frac{1+2+1}{1+3} = 1$   
 $1 = \frac{\sqrt{3}}{\sqrt{3} + \frac{1}{\sqrt{3}}} \Rightarrow h = 1$   
 $* m + 2 = \sqrt{3} \Leftrightarrow$  جواب

$g(m) = \frac{\sqrt{3}}{\sqrt{3} + \sin m} \rightarrow g'(m) = \frac{-\sqrt{3} \cos m \cdot \frac{d}{dm} \left( \frac{1}{\sqrt{3} + \sin m} \right)}{(\sqrt{3} + \sin m)^2} = \frac{-\sqrt{3}}{(\sqrt{3} + \sin m)^2} = \frac{-4}{(\sqrt{3} + \sin m)^2}$  (۴) (۱)  
 $f(m) = \frac{\sqrt{3} \sqrt{1 - \sin^2 m}}{1 - \sin^2 m} = \frac{\sin^2 m + \sqrt{3} \sin m + 9}{\sqrt{3} + \sin m} \rightarrow f'(m)$   
 $* \sqrt{3} g' \left( \frac{2\pi}{3} \right) - f' \left( \frac{2\pi}{3} \right) = \frac{1 + \sqrt{3} \sqrt{3}}{\sqrt{3}} = \frac{-\sqrt{3} \sqrt{3} - \sqrt{3} \sqrt{3}}{(\sqrt{3} - \sqrt{3})^2} \quad n = \frac{2\pi}{3}$   
 (جواب کامل با این صفحه)

$g'(m) \cdot f(g(m)) = (f \circ g)'(m)$  (۵)  
 $g(m) = \frac{1}{\sqrt{m}}$   
 $f(m) = \frac{1}{\sqrt{m}}$

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$\boxed{-1} \leftarrow$  منقح  $-m = \sqrt{f \left( \frac{1}{\sqrt{m}} \right)} = f \circ g(m)$

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

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

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

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

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

$$\textcircled{1, 2a} = \left| \frac{-a}{r} \right| \text{ Mod } \leftarrow \text{⑦}$$

$$f(m) = \sqrt{m} (m^2 + 3) = 3m + m^{\frac{5}{2}} = 1m^{\frac{0}{1}} + 3m^{\frac{1}{2}}$$

$$f'(m) = 3m^{\frac{0}{1}} + \frac{3}{2}m^{-\frac{1}{2}} \rightarrow 1m^{\frac{0}{1}} - \frac{3}{2}m^{-\frac{1}{2}} = 0 \quad \text{⑧}$$

$$m = 3 \times \left(\frac{1}{3}\right)^{\frac{1}{2}} + \frac{3}{2} \times \left(\frac{1}{3}\right)^{-\frac{1}{2}} = \boxed{1\sqrt{3}} \quad \star$$

$$\sqrt{m} = t$$

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

$$\star f\left(\frac{1}{9}\right) = \frac{1}{9} \div \left[-\frac{2}{9} + \frac{1}{9}\right] = \frac{1}{9} \quad \text{⑩}$$

$$(f \circ g(m))' = g'(m) \times f'(g(m))$$

$$g(m) = (m^2 - 1)^{\frac{1}{2}} \rightarrow g'(m) = \frac{1}{2}(m^2 - 1)^{-\frac{1}{2}} \times 2m = \frac{m}{\sqrt{m^2 - 1}} = -\sqrt{a} \quad \text{⑪}$$

$$m \rightarrow 2^+ \rightarrow [ ] \Rightarrow 2$$

$$f(m) = (2m)^{\frac{1}{2}} = 1 \times \frac{1}{2} = \frac{1}{2}$$

$$f'(g(\frac{\sqrt{a}}{2})) \times g'(\frac{\sqrt{a}}{2}) = \frac{1}{2\sqrt{a}} \times \frac{1}{2} = \frac{1}{4\sqrt{a}}$$

$$g'(\frac{\Delta \pi}{\mu}) - f'(\frac{\Delta \pi}{\mu}) = (g(x) - f(x))'(\frac{\Delta \pi}{\mu})$$

$$\rightarrow (g - f)(x) = \left( \frac{4}{\mu + \sin x} - \frac{10 - \sin^2 x}{4 - \sin^2 x} \right) = \frac{4}{\mu + \sin x} - \frac{(2 - \sin x)(4 + \sin^2 x + 2 \sin x)}{(2 - \sin x)(\mu + \sin x)} = -\sin x$$

$$\rightarrow (g - f)'(x) = -\cos x \rightarrow (g - f)'(\frac{\Delta \pi}{\mu}) = -\cos(\frac{\Delta \pi}{\mu}) = \frac{-1}{\mu}$$