



فقطاً $\rightarrow f(a) = g(a)$
 $\rightarrow g(a) \Rightarrow \frac{y_2 - y_1}{x_2 - x_1} = m \rightarrow \frac{a - 1}{\mu - 0} = \left(\frac{\mu}{\mu}\right)$
 $\rightarrow g(a) \Rightarrow \frac{\mu}{\mu} a + 1$

علیاً قاتی " μ \rightarrow فقط μ ①

حرف f در $a = \mu$ مساوی است با $f(a)$ در $a = \mu$ با μ برابر است: $\frac{\mu}{\mu}$

خط مماس از μ $\rightarrow m = \frac{\mu - 1}{\mu - (-1)} = \left(\frac{1}{\mu}\right)$
 $\rightarrow f'(A) = \frac{1}{\mu}$

خط مماس از μ $\rightarrow \left(\frac{1}{\mu} a + \frac{\mu}{\mu}\right) = g(a) \rightarrow$ ②

$\rightarrow f'(a) = \frac{a}{\sqrt{a^2 - 1}} \rightarrow f'(A) = \frac{a}{\sqrt{A^2 - 1}} = \frac{1}{\mu} \rightarrow \mu a = \sqrt{A^2 - 1} \rightarrow \mu^2 a^2 = A^2 - 1$

$\mu a = \mu \left(\frac{1}{\mu} A + \frac{\mu}{\mu}\right) \rightarrow \mu a = \frac{\mu}{\mu} A + \frac{\mu}{\mu}$
 $\rightarrow \mu a = A + 1$

$f(A) = g(A) \rightarrow \frac{1}{\mu} A + \frac{\mu}{\mu} = \sqrt{A^2 - 1}$

$\rightarrow \frac{a}{\sqrt{a^2 - 1}} = \frac{1}{\mu} \rightarrow \mu a = \sqrt{a^2 - 1} \rightarrow \mu^2 a^2 = a^2 - 1 \rightarrow \mu^2 a^2 - a^2 = -1 \rightarrow a^2(\mu^2 - 1) = -1$

$a = \frac{-1 \pm \sqrt{1 - 4(\mu^2 - 1)}}{2(\mu^2 - 1)}$
 $\rightarrow -\frac{1}{2} \frac{1 - 4\mu^2 + 4}{\mu^2 - 1}$

$f(a) = \sqrt{a^2 - 1} \rightarrow \sqrt{(\mu a)^2 - 1} =$ ③

$y' \rightarrow \frac{(\mu a + m)(a + \mu) - a^2 - m a - 1}{(a + \mu)^2} \rightarrow \frac{\mu a^2 + m a + 4 a + \mu m - a^2 - m a - 1}{(a + \mu)^2} = \frac{\mu^2 a^2 + \mu a + \mu m - 1}{(a + \mu)^2}$ ④

$\rightarrow y'(1) = \frac{\mu + m}{1 + \mu} = \frac{\mu}{\mu} \rightarrow \mu + m = \mu \rightarrow m = 0$

$m + n = 1 + \mu =$ ⑤

$\mu y - \mu a = n \rightarrow m = -\frac{a}{b} \rightarrow \left(\frac{\mu}{\mu}\right)$

$y(1) = \frac{1 + \mu + 1}{\mu} =$ ① $\text{و } (\mu \times 1) - (\mu \times 1) =$ ② \rightarrow ①

$(\mu g - f)' \left(\frac{\partial \pi}{\mu}\right) \rightarrow \frac{\mu - \sin^2 \theta}{\mu + \sin \theta} - \frac{\mu - \sin^2 \theta}{\mu - \sin \theta} \rightarrow \frac{-\sin^2 \theta - \mu \sin \theta}{\mu + \sin \theta} = -\sin \theta$ ⑥

$\frac{(\mu - \sin^2 \theta)(\mu + \sin \theta + \mu \sin \theta)}{(\mu - \sin \theta)(\mu + \sin \theta)}$

$(-\sin \theta)' \rightarrow -\cos \theta \rightarrow -\cos \frac{\partial \pi}{\mu} = \left(-\frac{1}{\mu}\right)$

$g'(\sqrt{\mu}) f'(g(\sqrt{\mu})) \rightarrow (f \circ g)'(\sqrt{\mu}) \rightarrow \frac{1}{\sqrt{\frac{1}{\mu} + 1}} + \frac{1}{\sqrt{\frac{1}{\mu} + 1}} = \frac{1}{\sqrt{\frac{1}{\mu} + 1}} =$ ⑦

$(-1)' \rightarrow -1$

