

۲۳: شمس و تلیف

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$$g'(m) = (2C_m(1+C_m) + \sqrt{r} \sin m) f'(C_m + \sqrt{r} C_m) \quad (1)$$

$$g'\left(\frac{\pi}{2}\right) = (2 \times 1 \times 2 - 1) f'(1+1) = 3 f'(2) = \sqrt{2} \Rightarrow f'(2) = \frac{\sqrt{2}}{3}$$

$$f(m) = \frac{(C_m + r)(C_m - r C_m + 1)}{(r - C_m)(r + C_m)} = \frac{C_m - r C_m + 1}{r - C_m \sin} \quad (2)$$

$$(f - rg)'(m) = \left(\frac{C_m - r C_m + 1}{r - C_m \sin} - \frac{\sin}{r - C_m \sin} \right) \cdot \left(\frac{C_m(C_m - r)}{r - C_m} \right)' \sin m$$

$$\Rightarrow (f - rg)'(\frac{\sqrt{2}}{2}) = \sin \frac{\sqrt{2}}{2} = \left| -\frac{1}{r} \right|$$

$$f'\left(\frac{c}{\varepsilon}\right) \left((\varepsilon m - c) \sqrt{a m} \right)' = \varepsilon \sqrt{a m} = \varepsilon \times \frac{\sqrt{r a}}{r} = r \sqrt{r a} \quad (3)$$

$$f'\left(\frac{r}{\varepsilon}\right) = \left(-(\varepsilon m - c) \sqrt{a m} \right)' = -\varepsilon \sqrt{a m} = -\varepsilon \times \frac{\sqrt{c a}}{r} = -r \sqrt{c a}$$

$$\Rightarrow r \sqrt{c a} - (-r \sqrt{r a}) = \varepsilon \sqrt{c a} = \sqrt{4} \Rightarrow \left| a \leq \frac{1}{r} \right|$$

$$y = -a m + r \Rightarrow y = -\varepsilon a + r \Rightarrow f(\varepsilon) = -\varepsilon a + r \quad (4)$$

$$-a = -c - \left| a \right| \cdot \frac{1}{4} \Rightarrow f'(\varepsilon) = -\frac{1}{4}$$

$$y = \frac{1}{v} m + \frac{d}{v} \Rightarrow \frac{a m - 1}{r m + 1} = \frac{1}{v} m + \frac{d}{v} \Rightarrow v a m - v < r m + \frac{4 a m}{d} \quad (5)$$

$$\Rightarrow a m + (14 - v a) m + 12 < 0 \Rightarrow (14 - v a) - 12 \varepsilon < 0 \Rightarrow 14 - v a \leq 12 \Rightarrow a \geq \frac{2}{v}$$

$$4 m + (14 - v a) m \geq 0 \Rightarrow \left| m \leq \frac{12}{14 - v a} \right|$$

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$$\left. \begin{aligned} f(r) < 1 + ra - b < 0 \Rightarrow b < -4 \\ f'(r) < c \times \Sigma + a < 0 \Rightarrow |a < -12| \end{aligned} \right\} \rightarrow b - a < -4 + 12 \Rightarrow | -8 | \quad (4)$$

$$f'(u) < n \sin^{n-1}(ur) \times r \times u \times Q(ur) \quad (V)$$

$$f(u) f'(u) < \frac{\sin^n(ur) \times n \sin^{n-1}(ur) \times r \times u \times Q(ur)}{\sin^{n-1}(ur) \times \sin(ur)} \Rightarrow$$

$$f(u) f'(u) < \sin^{n-r}(ur) \times \sin(ur) \times n \times r$$

$$\text{d.} \quad \frac{\sin^{n-r}(ur) \cdot \sin(ur) \times n \times r}{\left(r \sin \frac{r}{r}\right)^n} \stackrel{\text{d.}}{\sim} \frac{u^{\Sigma-1} \times r \times n \times r}{\left(\frac{ur}{r}\right)^n}$$

$$\frac{r^m \times r \times n \times r}{u r^m} \approx r \sqrt{r} \Rightarrow \left\{ \begin{aligned} r^m \times n &= r^{\frac{q}{r}} \Rightarrow n = r^{\frac{q}{r}} \\ r^{m+2} &= r^{\frac{q}{r}} \Rightarrow |m+2 < \frac{q}{r}| \\ r^m &= \frac{\Sigma n - 1}{2+1} \\ r^m &= r^{\frac{2+1}{2+1}} \Rightarrow r+2 < 1 \\ &\Rightarrow |2 \geq 1| \end{aligned} \right.$$

$$\Rightarrow n < r' \leq r, \quad m = \frac{v}{r} \approx c/d$$

$$r^{m+n} < v + r < 19$$

$$\frac{\sqrt{m+1}}{\sqrt{m-1}} < r \Rightarrow \sqrt{m+1} < r\sqrt{m-1} \Rightarrow \sqrt{m} < c \Rightarrow |m < 9| \quad (1)$$

$$f'(u) < \frac{-r \frac{1}{r\sqrt{m}}}{(\sqrt{m}-1)^r} \Rightarrow f'(9) = \frac{-\frac{1}{c}}{\Sigma} < -\frac{1}{12} \Rightarrow (f^{-1})'(r) < \frac{1}{f'(9)} = -12$$

$$f(-1) = 1(-a+1) \Rightarrow \text{نسبة} \frac{f(-1)-f(0)}{-1-0} = \frac{-1a+1}{-1} = 1 \quad (4)$$

$$f(0) = 1 \Rightarrow \boxed{a = -\frac{1}{r}}$$

$$f'(n) = r(n+1)^r (rn)^{\frac{1}{r}} + (-\frac{1}{r})(n+1)^r \Rightarrow$$

$$f'(\frac{1}{r}x-2) = r(2)^r (\frac{1}{r})^{\frac{1}{r}} + (-\frac{1}{r}) \times 1 = 12 - 2 \quad (1)$$

$$f(n) = \sin n C r n \Rightarrow \begin{cases} f(\frac{\pi}{2}) = \dots \\ f(\frac{\pi}{2}) = 1 \end{cases} \Rightarrow \text{نسبة} \frac{0-(-1)}{\frac{\pi}{2}-\frac{\pi}{2}} \quad (1)$$

$$g(n) = -C r n \Rightarrow \begin{cases} f(\frac{\pi}{2}) = \dots \\ f(\frac{\pi}{2}) = 1 \end{cases} \Rightarrow \text{نسبة} \frac{0-1}{\frac{\pi}{2}-\frac{\pi}{2}} = \frac{\pi}{2}$$

$$\Rightarrow \frac{-\frac{\pi}{2}}{\frac{\pi}{2}} = -1 \quad \text{نسبة متوسطة}$$