

کامیاب نوری دار از رسم جیسری B

$$\lim_{x \rightarrow a} f(x) = f(a) \Rightarrow a+1 = b \quad a-b = -1$$

$$f'(x) = \begin{cases} 1 & x < 1 \\ \frac{1}{x^2} b & x \geq 1 \end{cases} \Rightarrow f'(1) = f'_-(1) \Rightarrow \frac{1}{1^2} b = 1 \quad (1)$$

$$b = 1 \quad a = \frac{1}{1} \quad a+b = 2 \quad (2)$$

$$f'(1) - 2g'(1) = (f(x) - 2g(x))'$$

$$x \rightarrow 1 \quad g(x) = \frac{1-x \sqrt{2x}}{\sqrt[3]{x^3}}, \quad f(x) = \frac{\varepsilon - 2x}{\sqrt[3]{x^3}} \quad (3)$$

$$f - 2g = \frac{-2\sqrt{2x}}{\sqrt[3]{x^3}} = \frac{-2\sqrt{2} \alpha x^{\frac{1}{2}}}{x^{\frac{1}{3}}} = -2\sqrt{2} \alpha x^{-\frac{1}{6}}$$

$$-\frac{1}{6} (-2\sqrt{2}) \times x^{-\frac{1}{6}} \Rightarrow x=1 \rightarrow \frac{\sqrt{2}}{3} = f'(1) - 2g'(1)$$

$$\cancel{a+b+c} \quad a \times b + c = \frac{1}{a} \rightarrow a^2 b + ac = 1$$

$$f'(x) = \begin{cases} b & x < a \\ -\frac{1}{x^2} & x \geq a \end{cases} \quad f'_+(a) = f'_-(a) \Rightarrow b = -\frac{1}{a^2} = -a^{-2} \quad (3)$$

$$a^2 b + ac = 1 \quad a^2 b = -1 \Rightarrow ac = 2 \quad (2)$$

$$f'(x) = \begin{cases} 0 & x < a \\ m(x-a)^{m-1} & x \geq a \end{cases} \quad f(a) = 0 \quad f'_+(a) = 0 \Rightarrow m=1 \quad (4)$$

(المزاد المبرور: كبر في المبرور حصة راس من صفه المبرور)

$$1' \quad g'(-\sqrt[3]{r}) f'(g(-\sqrt[3]{r})) = f \circ g'(-\sqrt[3]{r}) \quad (\Delta)$$

$$g(x) = \frac{1}{\sqrt[3]{x^2}} \quad x < 0 \quad f(x) = \frac{1}{\sqrt[3]{x^2}} \quad (x < 0)$$

$$\Rightarrow f \circ g(x) = \frac{1}{\sqrt[3]{x^2} \cdot \frac{1}{\sqrt[3]{x^2}}} = x$$

$$f \circ g'(x) = 1 \quad \text{--- ~~scribbled out~~ ---}$$

$$\left. \begin{array}{l} g' = -a = f'(r) \\ x = r \end{array} \right\} \Rightarrow g = -ra - \delta = f(r) \quad (\epsilon)$$

$$-a + ra + \delta = r \quad \Rightarrow a = -\frac{r}{r} \quad \frac{f(r)}{f'(r)} = -\frac{1}{r}$$

$$f'(r) = 1, \delta, \quad f(r) = -\frac{1}{r} \quad \Rightarrow \frac{f(r)}{f'(r)} = -\frac{1}{r}$$

$$f \circ g'(\frac{r}{\sqrt{n}}) = g'(\frac{r}{\sqrt{n}}) \circ f'(g(\frac{r}{\sqrt{n}})) \quad (\checkmark)$$

$$g(x) = \frac{1}{\sqrt{x}} \propto \frac{r}{\sqrt{(x-1)^2}} \Rightarrow x = \frac{r}{n} \Rightarrow \frac{1}{\sqrt{x}} \propto \frac{r}{\sqrt{(\frac{1}{n})^2}} = r\sqrt{n}$$

$$g'(\frac{r}{n}) \Rightarrow g(\frac{r}{n}) = \textcircled{r}$$

$$f'(x) = r \left(\left[x^2 + \frac{1}{r} \right] \right) \left(r \left[x^2 + \frac{1}{r} \right] \right) \stackrel{x=r}{\Rightarrow} f'(r) = r \epsilon$$

$$f \circ g' = \frac{r}{\sqrt{n}} = r\sqrt{n} \Rightarrow \frac{r\sqrt{n}}{-r\sqrt{n}} = \textcircled{-1}$$

$$g(x) = f'(x+1) \text{ and } f'(x+1)^2 = f'(-1) + f'(x) \\ = \epsilon f'(-1) = \epsilon \alpha \frac{1}{r} = \textcircled{\epsilon}$$

$$\frac{f'(x-h) f(x-h) + f'(x) f(x)}{-2h + \delta} \Rightarrow h \sim 0 \quad (9)$$

$$\Rightarrow \frac{-2f'(0)f(0) + f'(0)f(0)}{\delta} \Rightarrow f''(0) = \frac{1}{\sqrt{2+1} + (2-\epsilon)\alpha \frac{1}{r} \alpha}$$

$$\frac{1}{\sqrt{(2+1)r}} \xrightarrow{r \rightarrow 0} \text{ and } \frac{1}{1r} = \frac{2\delta}{1r} = f'(0)$$

$$\frac{f'(0)}{a} = \textcircled{\frac{\delta}{1r}}$$

$$xy - x^2 = 1 \quad xy = 1 + x^2 \quad (y = \frac{1}{x} + \frac{1}{r}x)$$

$$y = \frac{1}{r}x + \frac{1}{x} \Rightarrow m = \frac{1}{r} \Rightarrow m' = -1$$

$$\Rightarrow y' = \frac{1}{r} - \frac{1}{x^2} = -1 \Rightarrow x = 1 \text{ A}(1, r)$$