

پیشتر $\rightarrow a+1=b \rightarrow a-b=-1 \quad a-\frac{4}{3}=-1 \quad a=\frac{1}{3}$
 مستقیم $\rightarrow \frac{2a}{2\sqrt{n^2}} = b \times \frac{2a}{3\sqrt{n^2}} \rightarrow \frac{1}{3} = b \times \frac{1}{3} \rightarrow b=\frac{1}{3} \times 3 = \frac{4}{3}$
 $a+b = \frac{1}{3} + \frac{4}{3} = \frac{5}{3} = \boxed{\frac{5}{3}}$

$f(x) \rightarrow \frac{-2x+4}{\sqrt{n^2}}$ $g(x) \rightarrow \frac{|x-2|+\sqrt{2x}}{\sqrt{n^2}} = \frac{-x+2+\sqrt{2x}}{\sqrt{n^2}}$
 $\left(\frac{(-1)(\frac{4}{\sqrt{n^2}})}{\sqrt{n^2}} - \left(\frac{\frac{1}{\sqrt{n^2}}}{\sqrt{n^2}} \right) (-2x+4) \right) - 2 \times \left(\frac{(\frac{1}{\sqrt{n^2}}-1)(\frac{1}{\sqrt{n^2}})}{\sqrt{n^2}} - \left(\frac{1}{\sqrt{n^2}} \right) (\sqrt{2x}-x+2) \right)$
 $\frac{-4-4\sqrt{2}}{3} = \boxed{\frac{-4-4\sqrt{2}}{3}}$

پیشتر $\rightarrow ab+c = \frac{1}{a} \rightarrow c = \frac{1}{a} + (a) \times \frac{1}{a^2} = c = \frac{2}{a}$
 مستقیم $\rightarrow b = -\frac{1}{a^2}$
 $ac = 2$

$f'_-(a) = 0$ $f'_+(a)$ $f'_+ \neq f'_-$ $f'_n = m(n-a)^{m-1}$
 $n \geq a$
 $\boxed{m=1} \leq \boxed{m=0}$

$g'(-\frac{4}{3}) \times f'(g(-\frac{4}{3})) = (f \circ g)'(-\frac{4}{3})$
 $\frac{1}{2x^3} \rightarrow (2x^3)^{-1}$
 $(-1)(4x^2)(2x^3)^{-2}$
 $(-1)(\dots)$

$$y = -ax - d \quad f(r) = -ra - d \quad -a + ra + d = r \rightarrow ra + d = r$$

$$f'(r) = -a = \frac{r}{r} = -\frac{r}{r} \times \frac{r}{r} \times \frac{d}{r} = -\frac{1}{r} \quad ra = -r \quad a = -\frac{r}{r}$$

$$\frac{f(r)}{f'(r)} = \frac{-\frac{1}{r}}{\frac{r}{r}} = \boxed{-\frac{1}{r}}$$

$$g' \times f'(g) = (f \circ g)' \quad g\left(\frac{r}{\sqrt{n}}\right) \times f'(r) = -\frac{1}{r} \times r \times \frac{r}{r\sqrt{n}} \times 1 \times r \times \frac{r}{r} \times \frac{r}{r} = -r \times \frac{r}{r\sqrt{n}}$$

$$g' = (n^r - 1)^{-\frac{1}{r}} = -\frac{1}{r} (n^r - 1)^{-\frac{r}{r}} = -\frac{1}{r} (n^r - 1)^{-1}$$

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

$$g\left(\frac{r}{m}\right) = r$$

$$\frac{-r \times r \sqrt{r}}{-r \times r \sqrt{r}} = \boxed{1}$$

$$g(n) = f(n+1) + f(rn+1)$$

$$g(r) = f(-1) + f\left(\frac{r}{r}\right) \rightarrow g'(r) = r \times f'\left(\frac{r}{r}\right) = \boxed{r}$$

$$\lim_{h \rightarrow 0} \frac{f(0-h) - r f(0-h) + r}{h(0-h)} = \frac{-r f(0) + r f(0)}{0} = \frac{f(0)}{0} = \frac{r}{0} = \boxed{\frac{r}{0}}$$

$$y = 1 + rn \rightarrow \frac{dy}{dn} = \frac{1}{r} = m_1 \quad m_1 m_2 = -1 \rightarrow m_2 = -r$$

$$f' = rn - r \quad rn - r = -r \quad \boxed{n=1}$$

$$\boxed{y=r}$$

$$f(x) = \frac{x-2}{\sqrt[3]{x^2}} \rightarrow f'(1) = \frac{-2(\sqrt[3]{1}) - \frac{2}{3}(1)^{-\frac{1}{3}}(\frac{2}{\sqrt[3]{1}})}{\sqrt[3]{1}} = -\frac{10}{3}$$

$$g(x) = \frac{|x-2| + \sqrt{x}}{\sqrt[3]{x^2}} \rightarrow g'(1) = \frac{(-1 + \frac{1}{2\sqrt{1}})(1) - \frac{2}{3\sqrt[3]{1}}(1 + \sqrt{1})}{3\sqrt[3]{1^4}}$$

$$g'(1) = -1 + \frac{1\sqrt{1}}{4} - \frac{2}{3} - \frac{2\sqrt{1}}{3} = -\frac{11}{4} - \frac{\sqrt{1}}{4}$$

$$f'(1) \times g'(1) = -\frac{10}{3} + \frac{1}{3} + \frac{2\sqrt{1}}{4} = \frac{\sqrt{1}}{2}$$

$$\text{نقطة دای} \rightarrow f_+(a) = f_-(a)$$

$$m=0 \rightarrow \text{مشتق هر تابع است} \times$$

$$m=1 \rightarrow f'_-(a) = 0, f'_+(a) = 1 \checkmark$$

$$\rightarrow m = 1$$

$$>1 \rightarrow f'_-(a) = 0, f'_+(a) = m(\underbrace{x-a}_{a-a=0})^{m-1} \times \checkmark$$

$$g(\sqrt[3]{2}) = \frac{1}{(\sqrt[3]{2})^3 - 1(\sqrt[3]{2})^2} = \frac{1}{-2-1} = -\frac{1}{3}$$

$$f(-\frac{1}{\epsilon}) = \frac{1}{\sqrt[3]{-\frac{1}{\epsilon} - \frac{1}{\epsilon}}} = (-\frac{1}{\epsilon})^{-\frac{1}{3}} = -(\epsilon)^{-1 \times -\frac{1}{3}} = -\epsilon^{\frac{1}{3}} = -\sqrt[3]{\epsilon} \rightarrow f \circ g(x) = x$$

$$g'(x) \times f'(g(x)) = (x)' = 1$$

$$(f \circ g)' = g' \left(\frac{r}{\sqrt{\lambda}} \right) \times f' \left(g \left(\frac{r}{\sqrt{\lambda}} \right) \right)$$

$$g \left(\frac{r}{\sqrt{\lambda}} \right) = \frac{1}{\frac{r}{\sqrt{\frac{9}{\lambda} - 1}}} = r \rightarrow g' \left(\frac{r}{\sqrt{\lambda}} \right) \times f'(r)$$

$$g' \left(\frac{r}{\sqrt{\lambda}} \right) = -\frac{1}{r} \left(\frac{9}{\lambda} - 1 \right)^{-\frac{r}{r}} \times r = \frac{9}{\sqrt{\lambda}} \times -\frac{1}{r} \times \left(\frac{9}{\lambda} - 1 \right)^{-\frac{r}{r}} = -\frac{r}{\sqrt{\lambda}} \times \left(\frac{r}{r} \right)^{-\frac{r}{r}} = -\frac{r^{\Delta} \times \sqrt{r}}{r} = -\lambda \sqrt{\lambda}$$

$$f(n), n=r \rightarrow f(n) = n[\varepsilon]_{+1}^r = n n_{+1}^r \rightarrow f'(r) = r r(r) = 4r$$

$$\frac{-\lambda \sqrt{r} \times 4r}{-1 \times \lambda \sqrt{r}} = r$$

$$g'(n) = f'(n+1) + r f'(r n+1)$$

$$\xrightarrow{n=-r} g'(-r) = f'(-1) + r f'(-1) \xrightarrow{f'(\varepsilon) = f'_{-1}} g'(-r) = f'(-1) = r \times \frac{r}{r} = \boxed{r}$$

$$\lim_{h \rightarrow 0} \frac{(f(\Delta-h) - r)(f(\Delta-h) - 1)}{h(\Delta-h)} = -f'(\Delta) \times \frac{f(\Delta) - 1}{\Delta}$$

$$f'(\Delta) = \sqrt[n+3]{n+3} + \frac{n-1}{\sqrt[n+3]{(n+3)^r}} \rightarrow -f'(\Delta) = -\left(\sqrt[n]{n} + \frac{1}{\sqrt[n]{n}} \right) = r + \frac{1}{r} = -\frac{r\Delta}{r}$$

$$-\frac{r\Delta}{r} \times \frac{r-1}{\Delta} = \boxed{-\frac{\Delta}{r}}$$

$$\text{تقریب مسبق} \rightarrow \frac{f(h) - f(\Delta-h)}{h} = f'(\Delta)$$