

$$\left(f \circ g\left(\frac{r}{\sqrt{r}}\right)\right)' = f'(r) \rightarrow ((f(x))^r + 1)' \rightarrow r r^{\frac{r}{2}-1} \rightarrow r^{\frac{r}{2}}$$

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

$$g'(x) = f'(x+1) + r f'(rx+b)$$

$$g'(-r) = f'(-1) + r f'(r) = \frac{r}{r} + r \times \frac{r}{r} = \underline{r}$$

$$\lim_{h \rightarrow 0} \frac{(f(a-h)-1)(f(a-h)-r)}{h(a-h)} \xrightarrow{\text{hop}} \lim_{h \rightarrow 0} \frac{(f(a-h)-1)x-1}{a-h}$$

$$= \lim_{h \rightarrow 0} \frac{(1-h)\sqrt{1-hx}-1}{a-h} = \underline{\frac{-r}{a}}$$

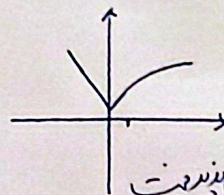
$$y' = r m - 2$$

$$y = \frac{rx}{r} + \frac{1}{r} \xrightarrow{y'} \frac{1}{r} - y' \xrightarrow{r=2r} r m - 2 = -r \rightarrow m = -r$$

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$$a+1=b$$

$$f(x) = \begin{cases} a+|x| & x < 1 \\ b\sqrt{x} & x \geq 1 \end{cases}$$



نقطه در $x=1$ شیب دارد

$$1 = b \times \frac{1}{r} \times \frac{1}{r} \rightarrow b = \frac{r}{r} \rightarrow a = \frac{1}{r} \rightarrow a+b = \underline{r}$$

$$g(x) = \frac{|x-r| + \sqrt{rx}}{\sqrt{xr}} \quad f(x) = \frac{|2x-1|}{\sqrt{xr}}$$

$$(f(1) - g(1))' \rightarrow \frac{|2x-1| - |x-r| - \sqrt{rx}}{\sqrt{xr}} = \frac{r-r}{r} = 0$$

$$\frac{\sqrt{r}}{r} \xrightarrow{m=1} -\sqrt{r} \times \frac{1}{r} \times \frac{r}{r} = -\frac{1}{\sqrt{r}}$$

$$\frac{1}{a} = b \times a + c \rightarrow \frac{1}{a} = -\frac{1}{r} \times a + c \rightarrow c = \frac{r}{a}$$

$$f' \rightarrow x < a : b$$

$$x > a : -x^{-r} \rightarrow b = -a^{-r} = -\frac{1}{a^r}$$

$$ac = \frac{r}{a} \times a = \underline{r}$$

$$f' \rightarrow x < a : 0$$

$$x > a : m(x-a)^{m-1} \neq 0 \xrightarrow{x=a} m=1$$

$$\left(f \circ g(x)\right)' \rightarrow \left(\frac{1}{\sqrt{\frac{1}{x^r - |a|^r} - \frac{1}{x^r - |a|^r}}}\right)'$$

$$\xrightarrow{\text{مشتق}} \left(\frac{1}{\sqrt{\frac{1}{r a^r} + \frac{1}{r a^r}}}\right)' = \left(\frac{1}{\sqrt{\frac{2}{r a^r}}}\right)' = x' = \underline{1}$$

$$y' = -a \rightarrow f'(r) = -a \rightarrow \frac{r}{r}$$

$$-ra - a = f(r)$$

$$\hookrightarrow \frac{r}{r} - a = -\frac{1}{r}$$

$$a = -\frac{r}{r} \quad \frac{f(r)}{f'(r)} = \underline{-\frac{r}{r}}$$