

$$a+1=b \rightarrow \frac{1}{\sqrt{x}} = \frac{1}{\sqrt{x}} x^{-1/2}$$

$$1 - \frac{1}{\sqrt{x}} \mid b = \frac{1}{\sqrt{x}}$$

$$a = 1/\sqrt{x}$$

$$a+b = \frac{2}{\sqrt{x}}$$

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$$g(x) = \frac{|x-2| + \sqrt{x}}{\sqrt{x}} \xrightarrow{\text{مشتق}} \frac{1(\sqrt{x}) - \frac{1}{2\sqrt{x}}(x-2)}{\sqrt{x}} + \frac{\frac{1}{2\sqrt{x}}(\sqrt{x}) - \frac{1}{2\sqrt{x}}(x-2)}{\sqrt{x}}$$

$$g'(x) = \frac{1 - \frac{1}{2\sqrt{x}}}{\sqrt{x}} + \frac{\frac{1}{2} - \frac{1}{2\sqrt{x}}}{\sqrt{x}} = \frac{1}{\sqrt{x}} - \frac{1}{2x} = \frac{2-\sqrt{x}}{2x}$$

$$f'(x) = 2(\frac{1}{\sqrt{x}}) - 2(\frac{1}{2\sqrt{x}}) = \frac{1}{\sqrt{x}} = \frac{1}{\sqrt{x}}$$

$$\frac{1}{\sqrt{x}} - \frac{1}{2\sqrt{x}} = \frac{1}{2\sqrt{x}}$$

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$$b = -x^{-2} \quad b = -\frac{1}{x^2}$$

$$\frac{1}{a} + c = \frac{1}{a}$$

$$c = \frac{1}{a}$$

$$ac = 1$$

$$\frac{1}{a} + c = \frac{1}{a}$$

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$$b = b + (x-1)^m \rightarrow b \sim m > 0$$

$$f'(x) = 0$$

$$f'(x) = m(x-1)^{m-1}$$

$$m=2$$

$$0 \cdot x = 0$$

$$b = b + (x-1)^m \rightarrow b \sim m > 0$$

$$m=2$$

$$0 \cdot x = 0$$

$$m=1 \leftarrow \text{حالت اول}$$

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$$g(x) = \frac{1}{x^2 - (-x^2)} = \frac{1}{4x^2} = \frac{1}{4} \left(\frac{1}{x^2} \right)$$

$$f(x) = \frac{1}{\sqrt{x}} \rightarrow f'(x) = \frac{1}{2} \left(\frac{1}{x^{3/2}} \right) = -\frac{1}{2} x^{-3/2}$$

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

$$f'(x) = \frac{1}{2\sqrt{x}} \rightarrow \frac{1}{2\sqrt{x}} = \frac{1}{2\sqrt{x}}$$

$$g'(x) \cdot f'(x) = \left(\frac{1}{2\sqrt{x}} \right) \cdot \left(-\frac{1}{4x^3} \right) = -\frac{1}{8x^{7/2}}$$

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

$$ra + a = r$$

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

$$y = -\frac{r}{r+1}x - a \xrightarrow{x=0} \frac{y}{r} - a = -\frac{1}{r+1} \quad \frac{f(r)}{f'(r)} = \frac{-1/r}{r/r} = -\frac{1}{r} \quad \text{closo}$$

$$\xrightarrow{\quad} f'(r) = r/r$$

$$(f \circ g)' = f'(g(x)) \cdot g'(x)$$

$$f \circ g = \frac{1}{\sqrt{\frac{1}{x} - 1}} \quad (r)$$

$$-\frac{1 \cdot \sqrt{r}}{1 \cdot \sqrt{r}} = -\frac{1}{\sqrt{r}} = -\frac{1}{\sqrt{r}}$$

$$-\frac{1}{\sqrt{r}}$$

$$\frac{1}{\sqrt{\frac{1}{x} - 1}} = \frac{1}{\sqrt{\frac{1-x}{x}}} = \frac{\sqrt{x}}{\sqrt{1-x}}$$

$$\frac{\sqrt{x}}{\sqrt{1-x}}$$

$$f(x) = (a^x + 1)^r + 1 \rightarrow \frac{r}{r+1} \left(\frac{1}{a^x} + 1 \right) \cdot \frac{1}{a^x} \left(a^x + 1 \right)$$

$$\frac{r}{r+1} \left(\frac{1}{a^x} + 1 \right) \cdot \frac{1}{a^x} \left(a^x + 1 \right) = \frac{r}{r+1} \left(\frac{1}{a^x} + 1 \right) \cdot \frac{1}{a^x} \left(a^x + 1 \right) = \frac{r}{r+1} \left(\frac{1}{a^x} + 1 \right) \cdot \frac{1}{a^x} \left(a^x + 1 \right)$$

$$r \cdot a^x - 1 \cdot \sqrt{r} = \frac{1}{\sqrt{r}} - \frac{1}{\sqrt{r}}$$

$$g'(x) = f'(x+1) + r \cdot f'(rx + a) \xrightarrow{x=1} g'(a) = f'(-1) + r \cdot f'(r) = \frac{r}{r+1} + r \cdot \frac{r}{r+1} = \frac{r}{r+1} \cdot \frac{r+1}{r+1} = \frac{r}{r+1}$$

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$$\text{HOP} \rightarrow \frac{r \cdot f'(a-1) - r}{a - r \cdot h} = \frac{r \cdot f'(a) - r}{a}$$

$$f'(x) = 1 \left(\frac{1}{\sqrt{x+1}} \right) = \frac{1}{\sqrt{x+1}} \cdot \frac{1}{\sqrt{x+1}}$$

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$$\frac{\frac{r}{r+1} - \frac{1}{r}}{a} = \frac{a/r}{a} \quad (1/r)$$

$$\frac{1}{r} = \frac{1}{r}$$

$$r - \frac{1}{r \cdot r} \times 1 = \frac{r}{r}$$

$$y = ax^2 - \Sigma x + a$$

$$2y = r \cdot x + 1 \quad y = \frac{r \cdot x}{2} + \frac{1}{2}$$

$$\frac{r}{2}$$

$$-r = r \cdot x - \Sigma$$

$$r = r \cdot x \rightarrow x = 1$$

$$\text{closo} \rightarrow \frac{1}{0}$$

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