

مسائل

$$\underline{g'(\frac{y}{\sqrt{x}}) = -\sqrt{x}}$$

$$y' = g' \left(\frac{y}{\sqrt{x}} \right) \neq g'(y) = -\sqrt{x} \times 4x = x \times (-12\sqrt{x}) \rightarrow \text{برابر ۱}$$

$$f'(w) - f(w) = -a + \frac{1}{a} + a = \frac{1}{a}$$

$$\mathbb{N} \text{ auf } d \cong \mathbb{N}$$

$$f'(w) \xrightarrow{w} -a$$

$$\frac{f(\omega)}{f'(\omega)} = \frac{-1}{\omega} \quad \checkmark$$

②

Y

$$(f \circ g)' = 12\sqrt{x} \cdot \frac{1}{2\sqrt{x}} = 6$$

$$g'(-1) = 10f'(-1) + 10f'(1) = 10f'(-1) = 9$$

سوابق $f(-1) = f(-1 + \omega)$

$$\lim_{h \rightarrow 0} \frac{f^{(n)}(\omega-h) - f^{(n)}(\omega-h+p)}{h(\omega-h)} = \lim_{h \rightarrow 0} \frac{f^{(n)}(\omega-h+1)}{\omega-h} (f^{(n)}(\omega-h) - f^{(n)}(\omega))$$

$$f(\omega) = \frac{1}{\omega} \rightarrow \frac{1}{\omega} \propto \frac{1}{f}$$

$$f(u) = (u-1)^r \sqrt{x+r} \rightarrow f'(u) = \sqrt{x+r} + (u-1) \frac{1}{\mu \sqrt{(x+r)^r}} \rightarrow f'(u) = r + \frac{1}{1r} = \frac{r^2}{1r}$$

$$\lim_{h \rightarrow 0} \frac{f'(a-h) - f'(a-h) + r}{h(a-h)} = \lim_{h \rightarrow 0} \frac{-rf'(a-h)f'(a-h) + rf'(a-h)}{a - rh} = \frac{-rf'(a)f'(a) + rf'(a)}{a} = \frac{-r \cdot \frac{1}{a} \cdot rf' + r \cdot \frac{1}{a} \cdot rf'}{a} = \frac{-\frac{r^2}{a} + \frac{r^2}{a}}{a} = 0$$

$$y - 12 = 1 \rightarrow \text{شیب خط} = \frac{1}{r} \rightarrow \text{شیب خط حاصل} = -2$$

$$y' = yx - x = -x \rightarrow x = 1, y = 2 \rightarrow \text{نقطه } (1, 2)$$