

$$\textcircled{2} (f_{cn} - r g_{cn}) \rightarrow \frac{r |a - r| - r |a - r| - \sqrt{cm}}{\sqrt{a_1 r}} = \frac{-r \sqrt{cm}}{\sqrt{a_1 r}} \rightarrow \text{مستقر}$$

$$\frac{-\frac{1}{2} \times \frac{1}{2}}{\frac{1}{2} \sqrt{c_{22}}} \times \frac{1}{\sqrt{c_{22}}} = \frac{1}{2} (-\frac{1}{2} \sqrt{c_{22}}) \rightarrow \frac{-\frac{1}{2}}{\sqrt{2}} + \frac{1}{2} \frac{\sqrt{2}}{\sqrt{2}} \rightarrow \frac{1-\sqrt{2}}{\sqrt{2}} \times \frac{1}{\sqrt{2}} \rightarrow \frac{1-\sqrt{2}}{2}$$

(13) $\frac{1}{a} = ba + i \quad \frac{1}{a^*} = b \rightarrow 1 = \frac{ba^*}{-1} + ca \rightarrow \boxed{Ca = 1}$

[illegible]

$$\textcircled{b} \quad g(-\sqrt{x}) = \frac{1}{\sqrt{x}} = \frac{1}{\sqrt{x}} \cdot \frac{g'(x)}{f'(x)} = \frac{-g(x)}{f'(x)} = \frac{-x}{\sqrt{x}}$$

$$f'(u) = \frac{-r}{\sqrt{\epsilon_0 r}} \times \frac{1}{\sqrt{\epsilon_0 r}} \Rightarrow f'(-\frac{r}{\epsilon}) \times g'(-\sqrt{r}) = \frac{-r}{\sqrt{14 \times 1}} \times \frac{-r}{r \times \sqrt{r}} \times \frac{1}{\sqrt{r}} \Rightarrow \frac{\sqrt{r}}{r}$$

④ $f'(x) = -a$ $f(x) = -\frac{1}{2}ax^2 + a$ $f'(x) - f(x) = r$
 $\frac{f(x)}{f'(x)} = \frac{-\frac{1}{2}ax^2 + a}{-a} = \frac{1}{2}x^2 - 1$ $-a + \frac{1}{2}ax + a = r \rightarrow a = \frac{-2r}{\frac{1}{2}x - 1}$
 $\frac{f(x)}{f'(x)} = \frac{-\frac{1}{2}ax^2 + a}{-a} = \frac{1}{2}x^2 - 1$ $ax = -2r$

$$(v) \text{ f.o.g.} \rightarrow f'(g(x)) \cdot g'(x) \Rightarrow \left(4x - \frac{4}{x} \right) \cdot \frac{4x - 4}{\sqrt{x-1}} = \boxed{\frac{14\sqrt{x}}{x}} \rightarrow \infty$$

$$g\left(\frac{c}{\sqrt{\lambda}}\right) = \frac{1}{\sqrt{\frac{a}{\lambda} - 1}} = r \quad f(r) = 14r^2 + 1 \leadsto f'(r) = \sqrt{14r^2} = 48$$

$$g'(x) = \frac{\mu}{\mu \sqrt{(x^2-1)^2}} \times \frac{1}{\sqrt{(x^2-1)^2}} = \frac{-\mu \cancel{\sqrt{x^2-1}}}{\mu \sqrt{(x^2-1)^2}} \times \epsilon = \boxed{\frac{-4\epsilon}{\mu}}$$

Subject:

Year.

Month.

Date.

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$$(1) g'(-1) = f'(-1) + 3f'(\epsilon)$$

$$\frac{1}{1} + 3 \times \frac{1}{1} = \boxed{4}$$

$$T=0 \rightarrow f'(-1) = f'(-1+0) = \frac{1}{1}$$

$$(9) \lim_{h \rightarrow 0} \frac{f(a+h) - 2f(a-h) + 2f(a)}{ah - h^2} \xrightarrow{\text{hop}} \frac{1f(a) + 2f(a) + 2f(a)}{a \cdot 2h} = ?$$

$$f(a) = 1 \quad f'(a) = 1 + \frac{1}{\sqrt{4\epsilon}} \Rightarrow \frac{9}{\epsilon}$$

$$\frac{-2 \times 1 \times \frac{9}{\epsilon} + 2 \times \frac{9}{\epsilon}}{a} = \frac{-9 + \frac{18}{\epsilon}}{a} = \boxed{\frac{-9}{a}}$$

$$(12) m = \frac{1}{1} \rightarrow m' = -2$$

$$y = 2x - \epsilon = -2 \quad x=1 \quad y=1 \quad \boxed{(1, 2)}$$

$$g(-\sqrt{r}) = \frac{1}{(-\sqrt{r})^2 - 1(-\sqrt{r})^2} = \frac{1}{-r-r} = -\frac{1}{r}$$

$$f(-\frac{1}{\epsilon}) = \frac{1}{\sqrt{-\frac{1}{\epsilon} - \frac{1}{\epsilon}}} = (-\frac{1}{r})^{-\frac{1}{r}} = -(r)^{-1 \times -\frac{1}{r}} = -r^{\frac{1}{r}} = -\sqrt[r]{r}$$

$$\rightarrow \log(n) = x$$

$$g'(u) \times \phi'(g(u)) = (u)' = 1$$

$$\phi_{\log}' = g'(\frac{r}{\sqrt{\lambda}}) \times \phi'(g(\frac{r}{\sqrt{\lambda}}))$$

$$g(\frac{r}{\sqrt{\lambda}}) = \frac{1}{\sqrt{\frac{r}{\lambda} - 1}} = r \rightarrow g'(\frac{r}{\sqrt{\lambda}}) \times \phi'(r)$$

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

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

$$p(n), n \geq 1 \rightarrow p(n) = n[\epsilon]^r + 1 = n^{r+1} \rightarrow p'(r) = r p(r) = 4r$$

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

$$\lim_{h \rightarrow 0} \frac{(f(a-h) - 2)(f(a-h) - 1)}{h(a-h)} = -f'(a) \times \frac{(f(a) - 1)}{a}$$

4

$$f'(a) = \sqrt[3]{a+3} + \frac{a-2}{\sqrt[3]{(a+3)^2}} \sim -f'(a) = (\sqrt[3]{a} + \frac{1}{\sqrt[3]{a^2}}) = 2 + \frac{1}{12} = -\frac{25}{12}$$

$$-\frac{25}{12} \times \frac{2-1}{a} = \boxed{-\frac{25}{12}}$$

تعريف مشتق $f(a)$ $\rightarrow \frac{f(h) - f(a-h)}{h} = f'(a)$