

$$y = -ax - d \xrightarrow{\text{Cubo}} f'(r) = -a$$

$$f(r) = -ra - d \rightarrow f'(r) - f(r) = -a + ra + d = r$$

$$a = -1/d$$

$$f'(r) = 1/d$$

$$f(r) = -1/d$$

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

$$g(x) = \frac{1}{\sqrt{x^2-1}} \quad g(x) = \frac{1}{\sqrt{\frac{x^2-1}{x}}} = r \quad g'(x) = \frac{-rx}{r^2 \sqrt{(x^2-1)^3}} = \frac{rx \cdot \frac{x}{x^2-1}}{r^2 \sqrt{(\frac{1}{x})^3}} = \frac{+19}{\sqrt{r}}$$

$$f(x) = (x[\frac{x^2-1}{r}])^r + 1 \quad x=r \rightarrow f(x) = (x)^r + 1 = 19x^4 + 1$$

$$f(x) = 19x^4 + 1 \rightarrow f'(r) = 92$$

$$\frac{(f \circ g)'(\frac{r}{\sqrt{r}})}{-19\sqrt{r}} = \frac{f'(g(x)) g'(x)}{-19\sqrt{r}} = \frac{f'(r) g'(\frac{r}{\sqrt{r}})}{-19\sqrt{r}} = \frac{-19\sqrt{r} \cdot 92}{-19\sqrt{r}} = \boxed{92}$$

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

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

$$\lim_{x \rightarrow -1} g'(-1) = f'(-1) + rf'(-1)$$

$$T = d \Rightarrow f'(-1 + \Delta K) \cdot f'(-1) \xrightarrow{K=1} f'(\epsilon) \cdot f'(-1)$$

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

$$\Rightarrow g'(-1) = f'(-1) = \epsilon \times \frac{r}{r} = \boxed{19}$$

$$\lim_{h \rightarrow 0} \frac{f'(a-h) - rf'(a-h) + r}{h(a-d)} \xrightarrow{\text{Hop}} \frac{f(a) - rf(a) + r}{a - ra} = \frac{-r \times r \times \frac{r}{19} + r \times \frac{r}{19}}{a}$$

$$f(x) = (x-\epsilon)\sqrt{x+r} \rightarrow f(a) = (a-\epsilon)(\sqrt{a}) = r$$

$$f'(x) = \sqrt{x+r} + (x-\epsilon)\left(\frac{1}{\sqrt{x+r}}\right) \rightarrow f'(a) = \sqrt{a} + (1)\left(\frac{1}{\sqrt{a+r}}\right) = \frac{r}{19}$$

$$4y - rx = 1 \Rightarrow m = -\frac{-r}{4} = \frac{1}{r} \Rightarrow m_{\text{perp}} = -r$$

$$y = x^r - \epsilon x + d \Rightarrow y' = rx - \epsilon$$

$$\begin{cases} rx - \epsilon = -r \\ rx = r \\ x = 1 \\ y = 1 - \epsilon + d = r \end{cases} \rightarrow \boxed{(1, r)}$$