

$$y = -ax - d \quad f(r) = -ra - d \quad -a + ra + d = r \rightarrow ra + d = r$$

$$f'(r) = -a = \frac{r}{r} = -\frac{r}{r} \times \frac{r}{r} \times \frac{d}{r} = -\frac{1}{r} \quad ra = -r$$

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

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

$$g' \times f'(g) = (f \circ g)'$$

$$g\left(\frac{r}{\sqrt{n}}\right) \times f'(r) = -\frac{1}{r} \times r \times \frac{r}{r\sqrt{r}} \times 1 \times r \times \frac{r}{r} \times r = -r \times r \times r$$

$$g' = (n^r - 1)^{-\frac{1}{r}} = -\frac{1}{r} (n^r - 1)^{-\frac{r}{r}} = -\frac{1}{r} (n^r - 1)^{-1}$$

$$f' = (n^r + 1)^r + 1 = r \times r \times (n^r + 1)$$

$$g\left(\frac{r}{m}\right) = r \quad \frac{-r \times r \times r}{-r \times r \times r} = \boxed{r}$$

$$g(n) = f(n+1) + f(rn+1)$$

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

$$\lim_{h \rightarrow 0} \frac{f(0-h) - r f(0-h) + r}{h(0-h)} = \frac{-r f(0) + r f(0)}{0} = \frac{f(0)}{0} = \frac{r}{0} = \boxed{\frac{r}{1}}$$

$$y = 1 + rn \rightarrow \frac{y}{r} = \frac{1}{r} = m_1 \quad m_1 m_r = -1 \rightarrow m_r = -r$$

$$f' = rn - r \quad rn - r = -r \quad \boxed{n=1}$$

$$\boxed{y=r}$$