

$$x=a \rightarrow a^r + ka = a^k \varepsilon \rightarrow a = -r$$

$$f(x) = k \frac{k+a}{\varepsilon-b} = k \rightarrow k+a = k^2 b \rightarrow a = 1+k = 11$$

$$g(x) = k \rightarrow k+b = k \rightarrow b = -1 \quad / \quad f(1) = \frac{1+11}{1+1} = \frac{12}{2} = 6$$

$$x=-1 \rightarrow k a + b = 0 \rightarrow \begin{cases} b - a = -r \\ b + \varepsilon a = -k^2 \end{cases}$$

$$x=\varepsilon \rightarrow k^2 + ka + b = 0 \rightarrow \begin{cases} b - a = -r \\ b + \varepsilon a = -k^2 \end{cases}$$

$$da = -k_0$$

$$f(x) = \frac{\varepsilon x + 1}{r x^k - \varepsilon x - 1}$$

$$f(1) = \frac{\varepsilon + 1}{r - \varepsilon - 1} = \frac{a}{-11}$$

$$a = -9 \quad b = -1$$

$$f(x) = \frac{x^k - \sqrt{k}}{\varepsilon^r x^k + ax + b}$$

$$-\varepsilon(x+1)^k = x^k + kx + 1 = -\varepsilon x^k - kx - \varepsilon$$

$$a+b = -1 - \varepsilon = -11$$

$$(x-1)^r = x^r + 1 - rx$$

$$m^r - \varepsilon k_0 \rightarrow -r k m k r$$

$$\frac{m^r - \varepsilon}{r} k_0$$

$$\boxed{-r k m k r}$$

$$(x-1)^k \quad \frac{L \cup O \cup R}{\Delta \cup \cup}$$

$$(x-1)^r = x^r + 1 - rx \quad \boxed{m = -r}$$

$$\frac{r-1}{x^r} \rightarrow \left(\frac{r-1}{x^r} \right) \left(\frac{r-1}{x} \right) = 0$$

$$\frac{-f}{r} \quad \frac{+f}{r}$$

$$Df = (-\infty - \frac{1}{r}) \cup [\frac{1}{r} + \infty)$$

$$m x^k + k m x + 1 > 0 \rightarrow m > 0$$

$$\hookrightarrow \Delta k_0 \rightarrow \varepsilon m^r - \varepsilon m k_0 \rightarrow \varepsilon m(m-1) k_0$$

$$Df = [0, 1]$$

$$\frac{r}{+f} - \frac{1}{+}$$



$$f\left(\frac{1}{r}\right) = r+k \quad g\left(\frac{1}{r}\right) = r \rightarrow r+k = r \rightarrow k=0$$

$$rk = 1 \neq 0 \rightarrow r + \frac{1}{r} = a \rightarrow a - k = \frac{1}{r} \quad (1)$$

$$f(1) = g(1) \rightarrow \frac{a-\varepsilon}{r+1} = r+b \rightarrow \frac{0}{0} = r+b \rightarrow 1 = r+b \rightarrow b = -r \quad (2)$$

$$f\left(r - \frac{1}{r}\right) = g\left(r - \frac{1}{r}\right) \rightarrow -ra + r = -\varepsilon \rightarrow -ra = -4 \rightarrow a = r$$

$$a - b = 0$$

$$f(r) = g(r) \rightarrow ra^r + ra = \varepsilon \rightarrow a^r + a - r = 0 \quad (a+r)(a-r) = 0 \quad (3)$$

$\swarrow \quad \searrow$
 $\frac{r}{r} \quad \frac{1}{1}$

$$\underline{r=r} \rightarrow ra^r + ra = \varepsilon \rightarrow a^r + a - r = 0 \quad a=1$$