

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

$$\begin{array}{c} \frac{1}{r} \quad \frac{1}{r} \\ + \quad - \quad + \end{array} \rightarrow D_f = \left(-\infty, \frac{1}{r}\right] \cup \left[\frac{1}{r}, +\infty\right)$$

$$mx^r + rx + 1 \geq 0 \rightarrow \textcircled{1} m \geq 0$$

$$\textcircled{2} \Delta \leq 0$$

$$Fm^r - Fm \leq 0 \rightarrow Fm(m-1) \leq 0 \rightarrow \begin{array}{c} \frac{1}{r} \quad 1 \\ + \quad - \quad + \end{array}$$

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

$$rx - 1 \neq 0 \rightarrow x + \frac{1}{r} = \alpha$$

$$\alpha + k = \frac{1}{r}$$

$$f(1) = g(1) \quad \frac{9-F}{r+r} = r+b \rightarrow \frac{a}{a} = r+b$$

$$1 = r+b \rightarrow b = -r$$

$$f\left(\frac{-r}{r}\right) = g\left(\frac{-r}{r}\right) \rightarrow -ra + r = -F \rightarrow -ra = -9 \rightarrow a = 9$$

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

$$f(r) = g(r) \rightarrow ra^r + ra = F \rightarrow a^r - a - r = 0$$

$$(a+r)(a-1) = 0 \rightarrow a = \textcircled{-r}, \textcircled{1}$$

$$x=r \rightarrow ra^r + ra = F \rightarrow a^r + a - r = 0 \rightarrow \frac{a}{r} = 1$$

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$$x=a \quad \alpha^r + r\alpha = \alpha^r - F$$

$$\alpha = -r$$

$$f(r) = r \rightarrow \frac{r+\alpha}{r-b} = r \rightarrow r+\alpha = r-rb =$$

$$\alpha = 1+r = 11$$

$$g(r) = r \rightarrow r+b = r$$

$$f(1) = \frac{4+11}{r+1} = \textcircled{r}$$

$$b = -1$$

$$x=-1 \quad r - \alpha + b = 0 \quad \begin{cases} b - \alpha = -r \\ b + r\alpha = -r \end{cases}$$

$$x=r \quad r + r\alpha + b = 0 \quad \begin{cases} b - \alpha = -r \\ b + r\alpha = -r \end{cases}$$

$$\alpha a = -r \rightarrow a = -9 \rightarrow b = -1$$

$$f(1) \rightarrow \frac{r+1}{r-9-1} = \frac{-a}{1r}$$

$$f(x) = \frac{x^r \sqrt{r}}{x^r + ax + b} \quad -F(x+1)^r = -\varepsilon x^r - \lambda x - F$$

$$\alpha + b = \textcircled{-1r}$$

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

$$\frac{m^r - F}{r} < 0$$

$$m^r - F < 0 \rightarrow -\frac{r}{m} < r$$