



$$y = -\frac{1}{r}x^r + \frac{r}{a}x + 1 \quad x_{\max} = -\frac{b}{r/a} \rightarrow -\frac{r}{a} = \frac{r}{a} \quad y_{\max} = \frac{r/a}{r/a}$$

$$x_1 = \frac{4}{10} \cdot \frac{r/a}{a} = \frac{4}{10} \cdot \frac{11}{10} = \frac{44}{100} = \frac{11}{25}$$

$$\left(\frac{r}{a}, \frac{r/a}{r/a}\right) \rightarrow (r, r) \rightarrow \left(r, -\frac{1}{a}\right)$$

$$-\frac{1}{r}x^r + \frac{r}{a}x + 1 = -\frac{r/a}{r/a} \rightarrow -\frac{1}{r}x^r + \frac{r}{a}x + \frac{r/a}{r/a} \rightarrow -\frac{r}{a} \pm \sqrt{\frac{r/a}{r/a} + \frac{r/a}{r/a}} = \frac{r/a}{r/a} - \frac{1}{r/a}$$

$$f(n) \rightarrow 1, f$$

$$1 - r \frac{f(r/a + r)}{r} \rightarrow u = -\frac{1}{r}, y = -v \rightarrow \Delta B \cdot -\frac{1}{r} x - v = \frac{v}{r}$$

$$D_f = (a \quad r) \quad D_g = [-1 \quad b]$$

$$L D_f(m-1) = (a+1 \quad a) \rightarrow D_g(m+1) = [-r \quad b-1]$$

$$\rightarrow (a+1 \quad a) \cap [-r \quad b-1] \rightarrow (a+1 \quad b-1)$$

$$\rightarrow a+1 = -r \quad b-1 = a \rightarrow \underline{a = -r}, \underline{b = 4}$$

$$\rightarrow a - b = -r - 4 = \boxed{-9}$$

$$f\left(\frac{m}{r} + 1\right) \rightarrow [-r \quad +a]$$

$$-r \leq m \leq a \rightarrow -\frac{r}{r} + 1 \leq \frac{m}{r} + 1 \leq \frac{a}{r} + 1 \rightarrow -\frac{1}{r} \leq \frac{m}{r} + 1 \leq r/a$$

$$\rightarrow D_f(m) = \left[-\frac{1}{r} \quad r/a\right] \quad \sqrt{|rf(m) - r|} \rightarrow |R \cap D_f(m)|$$

$$\rightarrow D_{g_r} = [-1/a \quad r/a]$$

$$f(n) = \left| \frac{n+1}{r/n+1} \right| \xrightarrow{\text{sub } r} \left| \frac{n-1}{r/n-r} \right| \xrightarrow{\text{sub } r} \left| \frac{n-1}{r/n-r} \right| + 1$$