

$\gamma_{12} = \gamma_{21} = -1$ -7
 $\frac{-a}{r_a} \approx -\frac{1}{r} = T_1 + T_2$ $T_1 + \gamma_{12} s_{T_1}$ $s_2 + s_1 = 1 + T_1 + T_2$
 $\frac{-a}{r_a} \approx -\frac{1}{r} = T_1 + T_2$ $T_2 + \gamma_{12} s_{T_2}$ $\checkmark$
 $1 - \frac{1}{r} = s_1 + s_2 \Rightarrow \frac{1}{r} = s_1 + s_2 \Rightarrow \frac{a}{r} = \frac{1}{r} \Rightarrow a = 1$
 $-\frac{1}{r} = (1 + \gamma_{12})(T_1 + \gamma_{12}) \cdot T_1 + T_2 + \frac{T_1 + T_2}{r} + \frac{1}{r} = -1 \Rightarrow T_1 + T_2 - \frac{1}{r} + \frac{1}{r} = -1 \Rightarrow T_1 + T_2 = -1$
 $\begin{bmatrix} -1 \times 1 \\ -\frac{1}{r} \end{bmatrix} = \begin{bmatrix} -1 \\ \frac{1}{r} \end{bmatrix}, \begin{bmatrix} -1 \\ \frac{1}{r} \end{bmatrix} \Rightarrow \begin{bmatrix} -1 \\ -1 \end{bmatrix}$ $\Rightarrow \frac{b}{r} = -1 \Rightarrow b = -1$

$$\begin{aligned} \text{anr} - \text{an} - b &= \dots & f \cdot \beta^r + r \cdot \alpha^r - r \cdot \alpha &= v \\ \hookrightarrow \alpha^r & \frac{r\alpha + b}{a} \rightarrow \beta = \frac{f \cdot \beta^r + r \cdot (1-\beta)^r - r \cdot \beta = v}{r\beta + b} \Rightarrow r \cdot \beta \underbrace{(\beta-1)}_{=-\alpha} = -1 \rightarrow \alpha\beta = \frac{1}{r} = \frac{-b}{a} \\ & \rightarrow a = -r \cdot b & \text{anr} - \text{an} - b &= \dots \rightarrow -r \cdot b \alpha^r + r \cdot b \alpha - b = \dots & |\alpha - \beta| &= \frac{\sqrt{\Delta}}{|a|} = \frac{r}{|a|} \\ f \cdot x \frac{a \beta + b}{a} + r \cdot x \frac{a \alpha + b}{a} - r \cdot \beta &= v \Rightarrow f \cdot \alpha \beta + f \cdot b + r \cdot a \alpha + r \cdot b - r \cdot \beta \alpha = v \alpha \\ & \Rightarrow r \cdot a + f \cdot b = v \alpha \Rightarrow f \cdot b = v \alpha - r \cdot a = b \cdot \frac{r}{f} \end{aligned}$$

[illegible]

$$\left. \begin{aligned} \alpha + \beta &= \frac{-b}{a} s - 1 \\ ab &= -1 - m^2 \end{aligned} \right\} \rightarrow \alpha' + \beta' = (\alpha + \beta)' - r\alpha\beta = -1 - r(-1 - m^2) = r m^2 + r - 1 \rightarrow \boxed{\text{mit } r = 1}$$

$A(x, y) \quad B(x, y) \quad n \leq \frac{-a+r}{r} = -1 \text{ و } y=1 \quad r \leq \sqrt{-\frac{1}{a}} \quad n \leq -1 \pm r$
 $y = 1 \pm a(n+1)^r \rightarrow -1 \leq a(n+1)^r \rightarrow (n+1)^r \leq -\frac{1}{a} \rightarrow \alpha \leq -1 \pm r \quad \beta \leq -1 \pm r$
 $(\alpha^r + \beta^r) \leq 0 \rightarrow (-1+r)^r + (-1-r)^r \rightarrow (1-r^2+r^r) + (1+r^2+r^r) = 2+r^r$
 $\rightarrow 2+r^r \leq 0 \rightarrow r^r \leq -2$
 $-\frac{1}{a} \leq \frac{r^r}{r} \rightarrow a \leq \frac{r^r}{r}$
 $y = 1 \pm a(n+1)^r = a$
 $y \leq 1+a \leq 1 - \frac{r^r}{r} = \left[\frac{1}{r^r} \right]$
 فرض از بالا