

$$\frac{1}{u^r} + \frac{1}{(1-u)^r} \xrightarrow{\text{خرج}} \frac{(1-u)^r + u^r}{u^r(1-u)^r} \rightarrow \frac{1 - 2u + u^r + u^r}{(u(1-u))^r} \rightarrow \frac{2(u^r - u) + 1}{(u - u^r)^r} = \frac{17}{9}$$

$$\frac{17}{9} = \frac{r \cdot t + 1}{t^r} \rightarrow 17 \cdot t^r = 18 + t^r \rightarrow 17 \cdot t^r - 18 = t^r \rightarrow 17 \cdot t^r - 18 = t^r \rightarrow 17 \cdot t^r - 18 = t^r$$

$$17 \cdot t^r = 18 + t^r \rightarrow 17 \cdot t^r - 18 = t^r \rightarrow 17 \cdot t^r - 18 = t^r \rightarrow 17 \cdot t^r - 18 = t^r$$

$$S_T = 1 + \sqrt{r} \quad \checkmark$$

$$\frac{1 \pm \sqrt{\Delta}}{2} \quad \frac{1 + \sqrt{\Delta}}{2} + \frac{1 - \sqrt{\Delta}}{2} = 1$$

$$z = \sqrt{y} \rightarrow z \geq 0 \rightarrow u + r \geq 0 \rightarrow u \geq -r \quad (I)$$

$$-u^r + ru - 1 \geq 0 \quad \frac{r}{-u} + \frac{r}{u} \quad (II) \quad u \geq 0 \quad (III) \quad u^r \geq 0 \quad (IV)$$

$$-u^r + ru^r + r \partial u - 1 \geq 0 \quad \frac{-\partial}{+\partial} \frac{r}{-\partial} \frac{r}{+\partial} \quad (III') \Rightarrow I \cap II \cap III \cap IV \cap III' = \{ \}$$

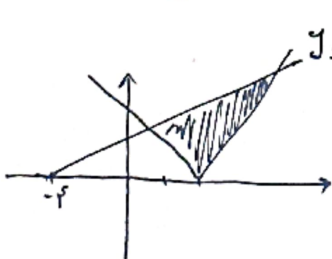
$$(u-r)(-u^r+r)$$

(V) قوت قیاسی علامت

(F)

$$\begin{cases} g = |u+r| + |u-1| \xrightarrow{\text{جست مثبت}} ru+1 \\ g = -\frac{ru}{r} + \frac{1v}{r} \end{cases} \rightarrow ru+1 = -\frac{ru}{r} + \frac{1v}{r} \xrightarrow{\times r} ru+r = -u+1v \rightarrow u \leq r$$

$$\begin{cases} g = |u+r| + |u-1| \xrightarrow{\text{جست منفی}} -ru-1 \\ g = -\frac{ru}{r} + \frac{1v}{r} \end{cases} \rightarrow -ru-1 = -\frac{ru}{r} + \frac{1v}{r} \rightarrow -ru-r = 1v-u \rightarrow \frac{13}{r} \quad \frac{13}{r} \leq \frac{1v}{r}$$



$$\sqrt{u^r - ru + r} \rightarrow |u-r| \quad u-r = \frac{1}{r} u + r \rightarrow \frac{1}{r}$$

$$\frac{1}{r} \begin{vmatrix} 1 & 0 & r \\ 4 & 2 & 0 \\ 1 & 1 & 1 \end{vmatrix} \rightarrow \frac{17+0+12-r-0-0}{r} = \frac{29-r}{r} = 12 \quad \checkmark$$

$$\frac{1}{u} + \frac{1}{u+9} = \frac{1}{r} \rightarrow u = 3 \quad \checkmark$$

$$\frac{1}{r} \begin{vmatrix} 1 & 0 & r \\ 4 & 2 & 0 \\ 1 & 1 & 1 \end{vmatrix} = 12 \quad \checkmark$$

$$u+9 \leftarrow \text{فرمان} \quad u \leftarrow \text{برای} \quad \checkmark$$