

۱۹, ۲۵

مسئله: بازپرداخت A

$$y = (a-1)u^r + u + r \quad ns = r \rightarrow \frac{-1}{r(a-1)} = r \rightarrow -1 = r(a-1) \rightarrow -1 = ra - r \rightarrow \frac{r}{a} = a$$

$$y = \frac{-u^r}{\varepsilon} + u + r \quad \frac{0}{-1} = -u^r + \varepsilon u + 1r \rightarrow u^r + \varepsilon u - 1r \rightarrow (-u^r + r)(u + r)$$

(۱) ۵

$$f(n) = mn^r - \omega n + m \quad I: m < 0 \quad I \cap II: m < r/\omega$$

$$II: \omega > 0 \rightarrow r\omega - \varepsilon m^r > 0 \rightarrow \varepsilon m^r < r\omega \rightarrow \frac{r}{\omega} < m < r/\omega$$

(۱, ۱, ۵) ۵

$$\alpha = \frac{u - \sqrt{\omega}}{r} \quad \beta = \frac{u + \sqrt{\omega}}{r} \rightarrow S = r \quad P = \frac{\varepsilon}{a} \rightarrow u^r - ru + \frac{\varepsilon}{a} = 0$$

(۱, ۱, ۵) ۵

$$ru^r - \omega u + m + r = 0 \quad \alpha < \beta \quad ru^r + \beta^r = 1r \rightarrow \frac{r(S^r - P^r)}{r\alpha^r + r\beta^r} + \frac{S\sqrt{\omega}}{1\alpha} = 1r$$

$$rS^r - rP^r + r\sqrt{\omega} = 1r \rightarrow ru^r - rm - r + r\sqrt{\omega} = 1r \rightarrow \varepsilon - m + \sqrt{\omega} - \omega m = r$$

$$\sqrt{\varepsilon - \omega m} = -1 + m \xrightarrow{r\omega} \varepsilon - \omega m = m^r + r\varepsilon - 1ym$$

$$m^r - \omega m + 1r = 0 \rightarrow (m - \varepsilon)^r = 0 \rightarrow m = \varepsilon$$

(۱, ۱, ۵) ۵

$$y = a(u-r)^r + q \quad \frac{1}{\omega} \rightarrow \omega = \varepsilon a + q \rightarrow a = -1$$

$$y = -u^r + \omega + \varepsilon u$$

$$-u^r + \varepsilon u + \omega > 0 \quad \frac{-1}{-1} \quad \frac{a}{+} \quad (-1, \omega)$$

(۱, ۱, ۵) ۵

$$\alpha u^r - \omega u + q/r = 0 \quad \beta > 0 \quad \frac{1}{\alpha} + \frac{1}{\beta} = \beta$$

$$\alpha + \beta = \frac{r}{\alpha} \quad \alpha\beta = \frac{q\beta}{\alpha} \rightarrow \alpha = \frac{q}{\beta}$$

$$-\frac{q}{\beta} + \beta = -\frac{r}{\beta} \rightarrow \beta = \frac{r}{\mu}$$

$$q\left(-\frac{1}{\mu} + \frac{\mu}{r}\right) = -r + q = \left(\frac{r}{\mu}\right)$$

(۱, ۱, ۵) ۵

$u^r + m\alpha - r_m = 0$ $\alpha^r - m\beta = 1$
 $\alpha^r + m\alpha - r_m = 0$ $-m\alpha - h\beta + r_m = 1$

$\rightarrow -m(\alpha + \beta) + r_m = 1 \rightarrow m^r + r_m = 1$

$n = r$

$\rightarrow -r$

$f(u) = mnr + \epsilon u + \frac{m}{r} + v$

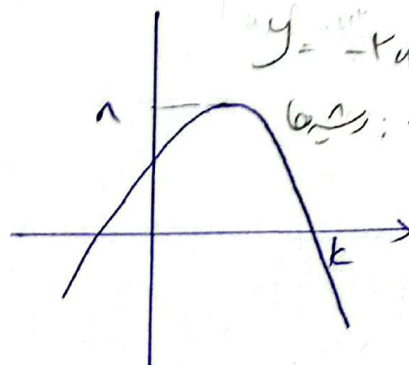
$\frac{-\Delta}{f_a} = 1$

$\Delta = -r_m$

$1v - \epsilon m(\frac{m}{r} + v) = -r_m$

$1v - r_m r - r_m m = -r_m$

$0 = r_m r - \epsilon m - 1v \rightarrow m^r - r_m - 1 = 0$



$y = -r_m r + \epsilon m + v$

$(m - \epsilon)(m + r) = \frac{\epsilon}{r}$

$k = w$

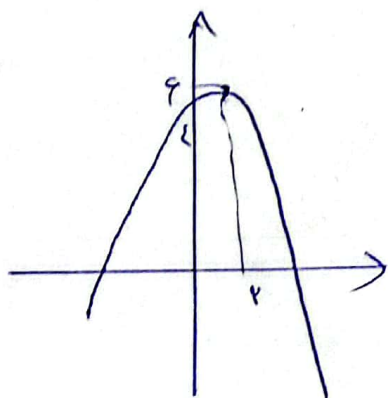
$\text{ent}/r \rightarrow y = a(x - h)^r + k$

$y = a(x - r)^r + v$

$y = -\frac{u^r}{r} + r + r_m$

$0 = (-\frac{u^r}{r} + r + r_m + \epsilon = 0)^r \rightarrow -u^r + \epsilon u + 1 = 0$

$\frac{1}{\alpha} + \frac{1}{\beta} \rightarrow \frac{\beta + \alpha}{\alpha\beta} \rightarrow \frac{-\epsilon}{1} \rightarrow \frac{-1}{r}$



$u^r - (r\alpha + \epsilon)u + (r\alpha^r + v\alpha + r) = 0$

$n = r \rightarrow r - 1\alpha + r\alpha^r + v\alpha + r = 0 \rightarrow r\alpha^r - r\alpha - 1 = 0$

$\alpha^r - r\alpha - r \Rightarrow (\alpha - r)(\alpha + 1)$

$\alpha = 1 \rightarrow u^r - 1\alpha + 1r \Rightarrow (u - r)(u - r)$

$\alpha = -\frac{1}{r} \rightarrow u^r - \frac{1}{r}u + \frac{\epsilon}{r} \Rightarrow u^r - \frac{1}{r}u + \frac{\epsilon}{r} = 0$

$r u^r - 1u + \epsilon = 0 \rightarrow u^r - 1u + 1r = 0$

$(u - r)(u - r)$

$\frac{r}{r} \quad \frac{r}{r}$