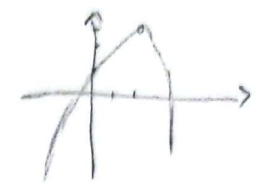


الف) $\min \left| \frac{r}{r} \right|$



ب) $\max \left| \frac{r}{r} \right|$



(2)

$\Delta \geq 0$ (1) $m^2 - 2m - 1 \geq 0 \Rightarrow \Delta = 4 + 4 = 8$ (ب) $m^2 + 2m - 1 \geq 0 \Rightarrow \Delta = 4 + 4 = 8$

$m^2 - 2m - 1 \geq 0$
 $\Delta \geq 0$
 $\frac{r}{+ \phi - \phi +}$

$m \rightarrow (-\infty, -1] \cup [2, +\infty)$

$m^2 + 2m - 1 \geq 0$
 $\Delta \geq 0$
 $\frac{-r}{+ | - | +}$

$m \rightarrow (-\infty, -3] \cup [0, +\infty)$

الف) (3) $P \geq 0, \Delta \geq 0, S \leq 0$

$\frac{1}{m-1} \geq 0 \Rightarrow m > 1$ (1) $S \leq 0, \frac{r_{m+1}}{m-1} \leq 0 \Rightarrow \frac{-1}{+ \phi - 1 +}$ (I) $\cap$ (II) = $\emptyset$

ب) $P \geq 0, \Delta \geq 0, S \leq 0$

1) $\Delta \geq 0 \Rightarrow (m+1)^2 - 1 \geq 0 \Rightarrow m^2 + 2m \geq 0 \Rightarrow m(m+2) \geq 0$

2) $P \geq 0 \Rightarrow m < 1$ 3) $S \leq 0 \Rightarrow -1 < m < 1$

(I) $\cap$ (II) $\Rightarrow (-1, 1)$

الف) (3) $\Delta \geq 0, S \leq 0, C \geq 0$

1) $S \leq 0 \Rightarrow m < 1$

2) $\Delta \geq 0 \Rightarrow (m+1)^2 - 1 \geq 0 \Rightarrow m^2 + 2m \geq 0 \Rightarrow m(m+2) \geq 0$

(I) $\cap$ (II) $\Rightarrow m < 1$

$\frac{-b}{2a} = -1 \Rightarrow \frac{r_{m+1}}{r_m - 1} = -1 \Rightarrow r_{m+1} = -r_m + 1 \Rightarrow m = 1$

$\Delta_1 \rightarrow \sin^2 - r(\frac{r}{r})(\frac{r}{r}) \rightarrow \sin^2 - 1 \rightarrow \sin^2 < 1 \rightarrow \sin^2 = 1$

$\rightarrow \sin^2 = 1$ تقریب $\frac{r}{r}u^2 - ru + \frac{r}{r} \dots \rightarrow \boxed{u = \frac{r}{r}}$

$r_n^2 - ru - 1 \xrightarrow{u=1} (u-1)(ru+1)$
 $1 - u^2 = (1-u)(1+u)$
 $r_n^2 - ru - 1 \xrightarrow{u=1} (u+1)(ru-1)$
 ضرب کردن زوج و فرد
 $\rightarrow \frac{(u-1)(ru+1)(u+1)(ru-1)}{(u+1)(u-1)} \rightarrow ru^2 - ru - 1 = 0$
 $\frac{-\Delta}{r_n} = -\frac{r \pm 9}{r^2}$

$\begin{cases} \Psi(s) = \Delta P + V \\ S_s \frac{m+r}{m} P_s = \frac{r}{m} \end{cases} \rightarrow \frac{r_{m+r}}{m} = \frac{1}{m} + V \xrightarrow{\times m} r_m = -19 \rightarrow m = r$

$\begin{cases} \alpha^r + \beta^r, \delta^r - rP \\ S = \frac{r}{r} P = \frac{1}{r} \end{cases} \rightarrow \frac{9}{r} + 1 = \boxed{\frac{19}{r}}$

$P_s \propto B = r \rightarrow \alpha = \frac{r}{B} \rightarrow B_s \frac{r}{\alpha}$
 $\frac{r\alpha + B}{\alpha B^r} \rightarrow \frac{r\alpha}{\alpha B^r} + \frac{B^r}{\alpha} \xrightarrow{\alpha = \frac{r}{B}} \frac{1}{\omega B^r} + \frac{B}{\omega}$

$\begin{vmatrix} r & r \\ 0 & r \end{vmatrix} \xrightarrow{r_{m+1}} \begin{vmatrix} r & r \\ 1 & r \end{vmatrix} \xrightarrow{r} \begin{vmatrix} r & r \\ 1 & r \end{vmatrix} \rightarrow 9a - rb + c = r \rightarrow \partial a - \partial b = -10 \rightarrow a + r = b$
 $\begin{vmatrix} 0 & r \\ 1 & r \end{vmatrix} \rightarrow 9a + ru + 1 = r \rightarrow a = 1 \rightarrow b = r \rightarrow c = r \rightarrow a^r + ru + r \rightarrow u_3 = -\frac{b}{r_n} = \boxed{-\frac{r}{r}}$

$\begin{cases} y_s: r_n^2 + (m+1)u + m + b \\ y_{s+1}: r_{n+1}^2 + (m+1)u + m + b = a \end{cases} \rightarrow r_n^2 + mu + m + r = 0$
 $\Delta_2 = 0 \rightarrow m^2 - r(r)(m+1) = 0 \rightarrow m^2 - 18m - 7r \rightarrow \boxed{-9} \checkmark$