

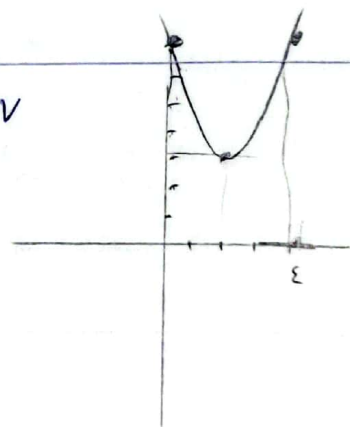
19, 5

المعادلة

المعادلة: A

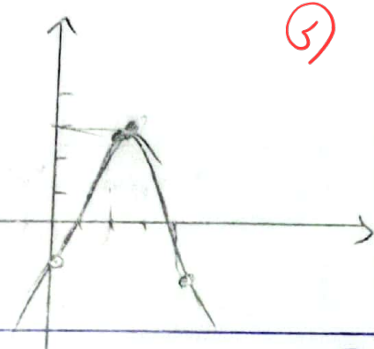
الف) $y = u^2 - \epsilon u + v$

$\frac{Ent}{\epsilon - \lambda + v} = w$

$$\begin{array}{c|cc} & \epsilon & \\ \hline 0 & v & v \end{array}$$


ب) $y = -u^2 + \epsilon u - 1$

$\frac{Ent}{\frac{-\epsilon}{-1}} = w$
 $-\epsilon + \lambda - 1 = w$

$$\begin{array}{c|cc} & \epsilon & \\ \hline 0 & v & -1 \end{array}$$


$2u^2 + (m+1)u + \frac{1}{p}m + r = 0$

$m < -r \leq m \leq 0$

$\Delta > 0 \rightarrow (m+1)^2 - 4(\frac{1}{p}m + r) > 0 \rightarrow m^2 + 1 + r_m - \frac{4}{p}m > 0 \rightarrow m^2 - \frac{4}{p}m + 1 + r = 0$

$(m-0)(m+\frac{4}{p})$

$$\begin{array}{c|cc} & m & \\ \hline 0 & -\frac{4}{p} & \end{array}$$

$\Delta = 0 \rightarrow (m+1)^2 - 4(\frac{1}{p}m + r) = 0 \rightarrow m^2 + 1 + r_m - \frac{4}{p}m = 0 \rightarrow m^2 - \frac{4}{p}m + 1 + r = 0$

$(m-0)(m+\frac{4}{p})$

$\Delta < 0 \rightarrow (m+1)^2 - 4(\frac{1}{p}m + r) < 0 \rightarrow m^2 - \frac{4}{p}m + 1 + r < 0 \rightarrow -r < m < 0$

$m \leq -r \leq m \leq 0$

(2) فاصلتين حقيقيتين

(1) رتبة واحدة

$y = (m-r)u^2 - r(m+1)u + 1$

$\Delta > 0 \rightarrow (r(m+1))^2 - 4(m-r) < 0 \rightarrow (rm^2 - rm + 1 + \epsilon) > 0 \rightarrow$

$S < 0 \rightarrow \frac{rm+r}{m-r} < 0$

$$\begin{array}{c|cc} & m & \\ \hline -1 & r & \end{array}$$

$\Delta > 0 \rightarrow \frac{1}{m-r} < \frac{r}{r} \rightarrow (r, +\infty)$

$S < 0 \rightarrow \frac{rm+r}{m-r} < 0 \rightarrow (-1, r)$

$$\begin{array}{c|cc} & m & \\ \hline -1 & r & \end{array}$$

$\Delta < 0 \rightarrow \frac{1}{m-r} < 0 \rightarrow (-\infty, -1)$

$m = (-1, r)$

$y = (m-r)u^2 - r(m+1)u + 1$

$m < r$

$\Delta < 0 \rightarrow \frac{1}{m-r} < 0$

$$\begin{array}{c|cc} & m & \\ \hline -1 & r & \end{array}$$

$\frac{rm+r}{rm-r} = -r \rightarrow \frac{m+1}{m-r} = -r \rightarrow m+1 = -rm + r \rightarrow m = \frac{r}{r}$

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(1)

$$\frac{rnr}{r} - (r \sin \alpha) n + \frac{w}{r} = 0$$

$$\Rightarrow \rightarrow r \sin \alpha - \frac{w}{r} > 0 \rightarrow r \sin \alpha - \frac{w}{r} > 0 \rightarrow \sin \alpha = 1 \rightarrow \sin = \pm 1$$

$$\text{Für } u = +1 \rightarrow \frac{rnr}{r} - rn + \frac{w}{r} = 0 \rightarrow \frac{rnr}{nr} - \frac{rn}{nr} + \frac{w}{r} \rightarrow (u - 1)r = \frac{w}{r}$$

$$\text{Für } u = -1 \rightarrow \left(\frac{rnr}{r} + rn + \frac{w}{r} \right) \rightarrow \frac{rnr}{nr} + \frac{rn}{nr} + \frac{w}{r} \rightarrow (u + 1)r = \frac{w}{r}$$

$$y = \frac{(rnr - rn - 1)(rnr - rn - 0)}{1 - nr}$$

$$(rnr - rn - 1) : (u - 1) = rn + 1 \quad (rnr - rn - 0) : (u + 1) = rn - 0$$

$$\frac{(n-1)(rn+1)(u+1)(rn-0)}{(1-u)(1+u)} \rightarrow (-rn-1)(rn-0) = -4nr + 1rn + 0$$

$$mnr \rightarrow (m+r)n - r = 0$$

$$r(\alpha + \beta) - \delta \alpha \beta = v$$

$$rnr - 4n - r$$

$$r\left(\frac{m+r}{n}\right) + \frac{1}{m} = v \rightarrow m = 5 \quad S = \frac{w}{r} \quad P = -\frac{1}{r}$$

$$\alpha^r + \beta^r \Rightarrow S^r - rP \Rightarrow \frac{q}{\varepsilon} + 1 \rightarrow \frac{1w}{\varepsilon}$$

$$\frac{r\alpha + \beta^w}{\omega \beta^r}$$

$$nr - \delta n + r = 0 \rightarrow$$

$$kr = \omega \beta - r \rightarrow kr = \omega(\omega k - r) \rightarrow k^w = \frac{r}{\omega} \sqrt{\omega k - r} \quad \alpha + \beta = \omega \rightarrow \alpha = \omega - \beta$$

$$r\alpha + k\omega \Rightarrow \frac{r(\omega - \beta) + (r \sqrt{\omega k - r})}{r\omega k - 1} = \frac{r\omega k - r}{\omega k - r} \Rightarrow \frac{1r(\omega k - r)}{\omega k - r} = 1r$$

$$y_1 = an^r + bn + c$$

$$y_r = rn + 10$$

$$\Rightarrow \begin{matrix} r & -r \\ 1\varepsilon & \varepsilon \end{matrix}$$

$$r = 9a - rS + \varepsilon$$

$$1\varepsilon = 9a + rS + \varepsilon$$

$$\Rightarrow \begin{cases} ra - S = 0 \\ ra + S = \omega \end{cases} \Rightarrow \begin{cases} b = r \\ a = 1 \end{cases}$$

$$y = nr + rn + \varepsilon$$

$$\text{Ext} \rightarrow \frac{-1}{10}$$

$$y = rnr + (m+1)n + m + 4 \xrightarrow{\text{abwachen}} x = rnr + n + mn + m + 4$$

$$\Delta \neq 0 \rightarrow (m-1)r - 1(m+4) = 0 \rightarrow mr - 1m - 4 \rightarrow \begin{pmatrix} m-1 \\ 1r \end{pmatrix} \begin{pmatrix} m+4 \\ -\varepsilon \end{pmatrix}$$