

الحمد لله

$$C = \frac{1}{\sqrt{1 - \beta^2}}$$

1

Q

$$\frac{-(-9r) \pm \sqrt{(-9r)^2 - 4(1)(-10r^2)}}{2(1)} = \frac{9r \pm \sqrt{81r^2 + 40r^2}}{2}$$

$$\left(\begin{array}{c} -1 \\ -5x^2 \\ \hline 2 \\ 2x^2 \end{array} \right) \cup \left(\begin{array}{c} -1 \\ -x^2 \\ \hline 2 \\ 7x^2 \end{array} \right)$$

$$\begin{array}{c} \tau' \\ \tau \end{array} \rangle$$



$$\sqrt[n]{x} = x^{\frac{1}{n}}$$

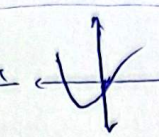
②

④ $wn^r - an + \xi = 0, \alpha = r\beta \rightarrow \rho = \frac{\xi}{w} \rightarrow r\beta^r = \frac{\xi}{r} \rightarrow \beta^r = \frac{\xi}{r} \rightarrow \beta = \sqrt[r]{\frac{\xi}{r}}$

Solve for a :

$$\begin{cases} \textcircled{1} \frac{1}{w} = \frac{a}{w} \rightarrow a = 1 \\ \textcircled{2} -\frac{1}{w} = \frac{a}{w} \rightarrow a = -1 \end{cases} \quad \Delta = (-1)^2 - 4 = -3$$

$\Delta < 0 \rightarrow 1 + i\sqrt{3} + 1 + i\sqrt{3} = 0$

⑤ $y = an^r + (w + ra)n \rightarrow \Delta = 0 \Rightarrow$  $\rightarrow (ra + w)^r = 0 \rightarrow a = -\frac{w}{r}$

$S > 0 \rightarrow \frac{-w - ra}{a} > 0 \rightarrow -\frac{w}{r} > a \in \mathbb{R}, \mathbb{Z}, \mathbb{N} \rightarrow \emptyset$

$y = -n^r - rn + b, y = n^r + an - r \rightarrow -\frac{b}{ra} = \frac{r}{-r} \Rightarrow -\frac{a}{r} \rightarrow a = r$

$\begin{cases} 1 = -n^r - rn + b \\ 1 = n^r + rn - r \end{cases} \rightarrow \begin{cases} r = -r + b \rightarrow b = 2 \\ ab = ra = 2 \end{cases}$

$ran^r + an - c = 0 \rightarrow S = -\frac{a}{ra} = -\frac{1}{r} \rightarrow \rho = -\frac{c}{r} = -w$

$rn^r - an + b = 0 \rightarrow S = a + \frac{1}{r} + \beta + \frac{1}{r} = -\frac{1}{r} + \frac{1}{r} + \frac{1}{r} = -\frac{(-a)}{r} \Rightarrow a = 1$

$\rho = (a + \frac{1}{r})(\beta + \frac{1}{r}) = a\beta + \frac{1}{r}(a + \beta) + \frac{1}{r^2} = \frac{1}{r} \rightarrow -w + \frac{1}{r}(-\frac{1}{r}) + \frac{1}{r^2} = \frac{1}{r} \rightarrow -w + \frac{1}{r}(-\frac{1}{r}) + \frac{1}{r^2} = \frac{1}{r} \rightarrow -w = \frac{1}{r} \rightarrow w = -\frac{1}{r}$

$b = -c \Rightarrow ab = -ca = -c \Rightarrow -c \rightarrow \left[\frac{ab}{c} \right] = \left[-\frac{w}{r} \right] = -r$

$n^r + 4n + m = 0 \rightarrow S = -4 \rightarrow \frac{m}{a} = -4 - \beta \Rightarrow n^r + rn - pm = 0$

$S = -r \rightarrow a = -r - \delta \in \mathbb{R}, \mathbb{Z} \rightarrow -4 - \beta = -r - \delta \Rightarrow \delta - \beta = 0$