

Scanned with CamScanner

$$x^r = (c^r + 1)x + b = 1$$

المطلوب

$$r = r_m + r$$

$$\begin{cases} r_c + r_s = \sum m + r \\ r_c r_s = (r_m)(r_n + r) = \sum m^r + \sum m \end{cases}$$

$$\begin{cases} r_c + r_s = c^r + 1 \\ r_c r_s = b \end{cases} \quad (5)$$

المطلوب

$$\begin{aligned} a+1 &= 1 \rightarrow \sum m + 1 \rightarrow \sum m = a \rightarrow m = 1 \\ b = \sum m^r + \sum m &= \sum (c^r) + \sum (r) = r_s \end{aligned}$$

$$|b-a| = |r_s - c^r| = 1$$

$$r_1 = r_{n-1} \quad r_r = r_{n+1}$$

$$\begin{cases} r_1 + r_r = \sum n \\ r_1 r_r = \sum n^r - 1 \end{cases} \quad (A)$$

$$r_1 r_r = a$$

$$a+1 = \sum n \rightarrow a = \sum n - 1$$

$$a = r_1 r_r = \sum n^r - 1 \quad \sum n - 1 = \sum n^r - 1$$

$$a = \sum n - 1 = r \quad \sum n^r - \sum n = 0$$

$$\leftarrow \text{المطلوب} \quad f_{AB}(n-1) = 0 \quad n = 1^r$$

$$\begin{cases} \alpha + \beta = -1 \\ \alpha \beta = -1 - m^r \end{cases} \quad (4)$$

$$\alpha^r + \beta^r = (\alpha + \beta)^r - r\alpha\beta$$

$$\begin{aligned} (-1)^r - r(-1 - m^r) &= 1 + r(1 + m^r) = r + r m^r \\ \alpha^r + \beta^r &= r \end{aligned} \quad (3) \quad \sum m = 0 \quad \text{المطلوب}$$

$$a(n+1)^r + 1 = y \quad (1)$$

$$y = a n^r + r a n + a + 1$$

$$s^r - r p = \sum - r \left(\frac{a+1}{a} \right) = 0 \quad (3)$$

$$\begin{aligned} \sum r a + r &= a \rightarrow a = -\frac{r}{a} \\ \text{المطلوب} &\rightarrow -\frac{r}{a} + 1 = \frac{1}{a} \end{aligned}$$