

سوال 1

$\frac{1}{13} \Rightarrow a = \frac{1}{13}$

$a+b+c=1 \Rightarrow \frac{1}{13} + b + c = 1 \Rightarrow b+c = \frac{12}{13}$

$\frac{1}{13} - \frac{1}{13} = 0$

سوال 2

$n(n-1) = 110 \Rightarrow n = 11$

$\frac{n(n-1)}{2}$

سوال 3

$f(x+1) = f(x) + 1$

$f(x+1) = f(x) + 1$

سوال 4

$n=2, a_2 = \frac{1}{2}$

2

سوال 5

$n=1, a_1 = -1$

سوال 6

$- \omega K = -V_0 \rightarrow K = \frac{-V_0}{-\omega} = 14$

$- \omega n + 22 = -4n \Rightarrow - \omega n = -4n - 22 \Rightarrow n = 11$

110

سوال 7

$t_9 - t_1 = 9a + b - a - b = 8a = 2$

0

$d = \frac{12}{14-10} = \frac{12}{4} = 3$

$a_9 - a_1 = 8d \Rightarrow a_9 - a_1 = \frac{8 \times 12}{4} = 24$

$t_n = an + b \rightarrow t_v = va + b$

$t_1 - t_v = 1 \cdot a + b - va - b = 12$

سوال 8

$t_1 = 1 \cdot a + b$

$12 \rightarrow a = 1$

$d = \frac{14-10}{4-2} = \frac{4}{2} = 2$

$a_n = 4n - 1$

$a_1 = 3, a_2 = 11$

$b_n = 2, 11, \dots, b_n = 14n - 1$

سوال 9

$b_n = Cn + D \rightarrow \begin{cases} b_1 = 3 \\ b_2 = 11 \end{cases} \rightarrow \begin{cases} C + D = 3 \\ 2C + D = 11 \end{cases} \rightarrow \begin{cases} C = 8 \\ D = -5 \end{cases} \rightarrow b_n = 8n - 5$

سوال 10

$A+B=2$
 $2A+B=9$
 $9A+2B=9$

$A = -2 \Rightarrow a = \frac{-2}{1} = -2$

$3A + 4B = ?$

$\omega A + b = 0 \Rightarrow \omega A = -b$

$\omega B = -20A$

$-20A + 20A = -20A \Rightarrow -20A = -20 \times \frac{1}{2} = 10$

سوال 11

$$\begin{array}{cc} -4 & -4 \\ \hline 1 & 1 \end{array} \quad C = -4 \text{ A p.u.}$$

$$r_a = 1 \Rightarrow a = 1$$

$$t_n = n^2 - n - 4 \xrightarrow{\text{Nöbel}} a_n = an + r_1$$

$$a + b + c = -4 \Rightarrow b = -1$$

$$d = \frac{10}{1} = 10$$

$$4n + 4v = n^2 \Rightarrow n = 4$$

Y