

$$c = \frac{1}{3}, a = \frac{3}{4}, c = 0 \Rightarrow 1 = \frac{3}{4}(1)^2 + b(1) + 0 \Rightarrow b = -\frac{1}{4} \Rightarrow \alpha_n = \frac{3}{4}n^2 - \frac{1}{4}n \Rightarrow \alpha_1 = \frac{3}{4} - \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$$

$$c = \frac{1}{4}, a = \frac{1}{4}, c = 0 \Rightarrow 0 = \frac{1}{4}(1)^2 + b(1) + 0 \Rightarrow b = -\frac{1}{4} \Rightarrow \alpha_n = \frac{1}{4}n^2 - \frac{1}{4}n \Rightarrow \alpha_1 = \frac{1}{4} - \frac{1}{4} = 0$$

$$N_0 = n(n-1) \Rightarrow n=11$$

$$\left. \begin{aligned} \alpha_n = n+1 \\ \alpha_n = n-1 \end{aligned} \right\} \Rightarrow \alpha_{11} = 12, \alpha_{11} = 10$$

$$\alpha_n = \frac{(-1)^n}{n} = \frac{1}{1}, \frac{1}{2}, \frac{1}{3}, \dots \Rightarrow \frac{1}{n} - (-1) = \frac{3}{n}$$

$$b_n = (-3)^n - v_n \Rightarrow b_p = (-3)^3 - v(3) = -27 - 21 = -48 \Rightarrow -48 = -\omega n + 24 \Rightarrow n=1 \Rightarrow K$$

$$\alpha_1 - \alpha_2 = 12 \Rightarrow \alpha_2 + 3d - \alpha_1 = 12 \Rightarrow 3d = 12 \Rightarrow d = 4 \Rightarrow \alpha_2 - \alpha_1 = \alpha_1 + \omega d - \alpha_1 = \omega(4) = 20$$

$$\left. \begin{aligned} \alpha_1 = 1 \\ \alpha_2 = 21 \end{aligned} \right\} \Rightarrow \alpha_n = n-1 \Rightarrow \alpha_p = 21-1 = 20 \Rightarrow b_n = 20n - \omega$$

$$c_n = \frac{n-2}{n+3} \Rightarrow \frac{n-2}{n+3} \cdot \frac{3}{4} = \frac{3(n-2)}{4(n+3)} \Rightarrow \frac{3}{4} \cdot \frac{1}{2} = \frac{3}{8} \Rightarrow \frac{3}{8} = \frac{3}{8}$$

$$c = \frac{1}{4}, a = \frac{1}{4}, c = 0 \Rightarrow 0 = \frac{1}{4}(1)^2 + b(1) + 0 \Rightarrow b = -\frac{1}{4} \Rightarrow \alpha_n = \frac{1}{4}n^2 - \frac{1}{4}n \Rightarrow \alpha_1 = \frac{1}{4} - \frac{1}{4} = 0$$

$$\left. \begin{aligned} \alpha_1 = 1 \\ \alpha_2 = 21 \end{aligned} \right\} \Rightarrow \alpha_n = n-1 \Rightarrow \alpha_p = 21-1 = 20 \Rightarrow b_n = 20n - \omega$$