

کیمیاء مرادی، تالیف شماره ۱۱ ۱۹۱۵

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$$+ \mu + \nu + 10$$

$$\alpha_{10} = \frac{\mu}{p} \times 100 - \frac{1}{p} \times 10$$

$$C = 0$$

$$\mu = p\alpha \rightarrow \alpha = \frac{\mu}{p}$$

$$\frac{\mu}{p} x^p + b x \rightarrow 9 + p b = 0 \rightarrow b = -\frac{1}{p}$$

$$\alpha_x = \frac{\mu}{p} x^p + \frac{1}{p} x + 10 = 0$$

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$$+0 \rightarrow +1 \rightarrow +p$$

$$p\alpha = 1 \rightarrow \alpha = \frac{1}{p}$$

$$C = 0$$

$$\frac{1}{p} x^p + b x$$

$$\frac{1}{p} + b = 0 \rightarrow b = -\frac{1}{p}$$

$$\frac{1}{p} (x^p - x) = 0 \rightarrow \frac{1}{p} x^p - \frac{1}{p} x$$

$$x^p - x = 11 \rightarrow x^p - x - 11 = 0$$

$$(x - 11)(x + 10)$$

$$x^p - x = 11 \rightarrow x^p - x - 11 = 0$$

$$+p \rightarrow +p$$

$$20 + 10 = 30$$

۱۱۵

$$= 17n + 1$$

$$= 17n + 1 = 17$$

$$17n - 17 \rightarrow 17n - 17 = 17$$

$$\alpha_n = \frac{(-1)}{p}$$

$$\frac{(-1)^p}{p} = \frac{1}{p}$$

$$\frac{(-1)}{1} = -1$$

$$\frac{1}{p} + \frac{1}{p} = \frac{2}{p}$$

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$$b_n = (-1)^n - V_n \rightarrow b_n = -V - 1 = -F$$

-6
9

$$a_n = -Q_n + 1V \rightarrow a_n = -Q_n + 1V = -F$$

$$-Q_n K = -V \rightarrow K = 1F$$

9-4

$$z_1 - z_V = 1V \rightarrow w d = 1V \rightarrow d = F$$

$$z_1 - z_1 = 0 \rightarrow d = 0 \times F = 0$$

$$z_1 = a_1 + 1V$$

$$z_n = a_1 + (n-1)d$$

$$z_1 = a_1 + 1$$

$$z_1 = a_1 + 1V$$

$$a_1 + 1V = 1V$$

$$z_V = a_1 + 1F$$

9-V

$$a_n = 1V$$

$$a_p = V \quad] \quad 1V - V = 0 \quad 1 - 1 = 0 \quad F = d$$

$$a_1 = 0V$$

$$\left. \begin{matrix} b_1 = 1V \\ b_p = 1V \end{matrix} \right\} \rightarrow a_1 = b_1$$

$$b_n = 1n - 1$$

$$a_p = 1V$$

$$a_p = b_p$$

$$1V = a_1 + 1d$$

$$V = a_1 + 1d$$

$$-1 = -1d \rightarrow d = F \quad 1a = 1V$$

$$a_1 = 1V$$

$$a_n = 1V + 1n$$

$$z_n = \frac{1V}{1}, \frac{1V}{1}, \frac{1V}{1}, \frac{1V}{1} \rightarrow 1n - 1$$

-1
9

$$1 < \frac{1V}{1}$$

$$\frac{1n - 1}{1n + 1} < \frac{1V}{1} \rightarrow 1n + 1 > 1n - 1$$

$$V > 1$$

$$1F > 1n$$

-9

$$z_n = 1, 1, 1, 1, \dots$$

$$z_n = An + Bn = \frac{1V}{1} + B = 1$$

$$1A + 0B = 1 \rightarrow 1A = 1$$

$$A = 1 \quad B = 0 \quad B = \frac{1V}{1}$$

$$\frac{1V}{1} \times 1 = \frac{1V}{1}$$

$$1 \times \frac{1V}{1} = \frac{1V}{1}$$



$$z_n = 1 \rightarrow \text{F.O.S.} \rightarrow a = 1 \quad | \quad c = -4$$

$$\overbrace{+b} + \overbrace{+p} + \overbrace{+p}$$

$$z_p = p \rightarrow a + d = p$$

$$z_p = p \rightarrow \underline{a + p \cdot d = p}$$

$$d = 0 \quad | \quad a = p$$

$$1 + b - a = -4 \rightarrow b = -1$$

$$z_n = n^p - n - 4 \quad \left. \begin{matrix} \text{S.O.} \\ \text{S.O.} \end{matrix} \right\}$$

$$n + p$$

$$n + p = n^p - n - 4$$

$$pV = n^p - 4n \rightarrow pV = n(n - 4)$$

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$$\underline{n = 9}$$