

$$\frac{x}{q}, x, xq \longrightarrow S_2 = \frac{x^2 + xq + xq^2}{q} = 2 \mid \Rightarrow x^2 + xq + xq^2 = 2q$$

$$xq^2 - 14q + x^2 = 0 \quad 1\delta$$

$$q = \frac{14 \pm \sqrt{196 - 4x^2}}{2}$$

$$q \notin W \quad \leftarrow \quad q = \frac{1}{x}$$

$$\hookrightarrow -x = x^2 \Rightarrow x = -1$$

$$x^2 + x, x, x^2 - 1 \Rightarrow b^2 = ac$$

$$x^2 + x = \frac{1}{x} \quad x^2 - 1 = \frac{1}{x}$$

$$S_1 = 1 \left(\frac{(\frac{1}{x})^2 - 1}{\frac{1}{x} - 1} \right) = 1 \times \frac{\frac{1}{x^2} - 1}{\frac{1}{x} - 1} = \frac{-12V}{-1} = \frac{12V}{1} = 12V$$

$$x^2 + x = \frac{1}{x} \Rightarrow x^3 + x^2 - 1 = 0$$

$$x^2 = \frac{1 \pm \sqrt{1 + 4x^3}}{2}$$

$$x^2 = \frac{1 \pm \sqrt{1 + 4x^3}}{2}$$

$$1 + q + q^2 + q^3 + q^4 = \frac{121}{11}$$

$$\Rightarrow a + aq + aq^2 + aq^3 + aq^4 = a \times \frac{121}{11}$$

$$a = 121$$

$$S_5 = 121 \times \frac{121}{11} = 121 \times 11 = 1331$$

$$1, -1, -1, \frac{A}{4}, -1, -1, 4x \rightarrow \text{حاجی} \quad d = \frac{4x - 1}{4} = 10, \delta$$

$$1, -1, -1, \frac{B}{4}, -1, -1, 4x \rightarrow \text{فنیسی} \quad q^4 = \frac{4x}{1} = 4x \quad q = \pm 2$$

$$A = 1 + 3 \times 10, \delta = 31, \delta$$

$$B = 1 \times (\pm 2)^3 = \pm 8$$

$$A + B = 31, \delta + 8 = 39, \delta$$

$$A + B = 31, \delta - 8 = 23, \delta$$

$$\frac{94}{x} \leftarrow -2x, \frac{-9\delta}{x}, \dots \rightarrow \text{حاجی}$$

$$121, a_2, \dots \rightarrow \text{فنیسی}$$

$$q = ?$$

$$-2x + 100d = 121 \times q^v$$

$$-2x + \frac{100}{x} = 121 \times q^v$$

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

$$121 \times q^v = 1$$

$$q^v = \frac{1}{121}$$

$$q = \frac{1}{11}$$

$$a+rd, a+rd, a+rd \rightarrow \text{cis}$$

$$b^r = ac \quad (a+rd)^r = (a+rd)(a+rd)$$

$$a^r + rrd^r + r^2ad, a^r + rrd + r^2d^r$$

$$rd^r + rad = 0$$

$$d(rd + ra) = 0$$

$$d \begin{cases} 0 \\ -a \\ 10 \end{cases}$$

$$d_2 = \frac{a}{10} \quad rd = 0 \quad rd = -ra$$

$$a+rd, a+rd, a+rd \rightarrow \text{cis}$$

$$b^r = ac \quad (a+rd)^r = (a+rd)(a+rd)$$

$$a^r + rrd^r + r^2ad, a^r + rrd + r^2d^r$$

$$rd^r = rad$$

$$rd = \frac{1}{r}, d = \frac{1}{r}, a = \frac{1}{r} - \frac{1}{r} = \frac{1}{r} \quad t_0 = \frac{1}{r} \times r = \frac{1}{1} \quad \frac{1}{r}, \frac{1}{r}, 1, - \quad q = r$$

$$r(aq), r(aq^r), aq^r \rightarrow \text{cis}$$

$$q = ?$$

$$rb = ac$$

$$raq^r = aq^r + raq$$

$$rq = q^r + r$$

$$q^r - rq + r = 0 \quad q = \frac{r \pm \sqrt{r^2 - r^2}}{r}$$

$$q = r \quad q = 1$$

$$\frac{1}{r} \leftarrow r, \frac{V}{r}, \dots \rightarrow \text{cis} \quad a = r \quad d = -\frac{1}{r}$$

$$-r, -d, -\frac{rd}{r}$$

$$q = \frac{d}{-r} = \frac{\frac{1}{r}}{-r} = \frac{1}{r^2}$$

$$t_r + r, t_{1r} + r, t_{1r} + r \rightarrow \text{cis}$$

$$b^r = ac$$

$$\frac{r + r(-\frac{1}{r})}{\frac{d}{r}} + r, \frac{r + r(-\frac{1}{r})}{\frac{1}{r}} + r, \frac{r + r(-\frac{1}{r})}{-1} + r$$

$$q = ?$$

$$\left(\frac{1}{r} + r\right)^r = \left(\frac{1}{r} + r\right)(1 + r) \quad \frac{1}{r} + r + \frac{r}{r} = \frac{1}{r} + \frac{r}{r} + \frac{r}{r} \Rightarrow 1 + 1 = 2 \quad \frac{r}{r} = 1$$

$$a, aq^r, aq^r \rightarrow s = vr$$

$$a_1, a_r, a_v$$

$$t_1, t_r, t_0$$

$$d = ?$$

$$d = aq^r - a = \frac{aq^r - aq^r}{1}$$

$$1aq^r - 1a = aq^r - aq^r$$

$$1aq^r - 1a = q^r - q^r$$

$$a, 1a, rra \rightarrow s = vr$$

$$vr a = vr a \quad a = 1$$

$$q^r - q^r + 1 = 0$$

$$q = \frac{r \pm \sqrt{r^2 - r^2}}{r} \quad q = 1 \quad q = 1$$

$$d = 1 - 1 = 0$$

$$a, a, a$$