

$$\frac{x}{q} + x + xq \Rightarrow x^2 = 4x \Rightarrow x = 4$$

$$\frac{x}{q} + x + xq = 11 \Rightarrow \frac{x + xq^2}{q} = 11 \Rightarrow 11q - xq^2 = 4 \Rightarrow q(11 - 4q) = 4$$

غیرممکن

$$q = \frac{1}{4} \checkmark$$

$$4x^2 = x^4 + 4x^2 + 4 \Rightarrow 4 = x^2(x^2 + 4 - 4) \Rightarrow 4 = x^2(x^2 - 4)$$

$$\Rightarrow x = \pm 2 \Rightarrow x = 2 \Rightarrow 1, 4, 2 \Rightarrow q = \frac{1}{2}$$

$$x = -2 \Rightarrow 1, 4, -2 \Rightarrow q = -\frac{1}{2}$$

$$S_1 = \frac{1(1 - (\frac{1}{2})^4)}{1 - \frac{1}{2}} = \frac{1 \times \frac{15}{16}}{\frac{1}{2}} = \frac{\frac{15}{16}}{\frac{1}{2}} = \frac{15}{8}$$

$$S_2 = a_1 + aq + aq^2 + aq^3 + aq^4 = a(1 + q + q^2 + q^3 + q^4)$$

$$= 2 \times \left(\frac{15}{8} \right) = \frac{15}{4}$$

$$A = \frac{1 + 4x}{x} = \frac{49}{x} \quad B = \sqrt{4x+1} = 1$$

$$\Rightarrow A + B = \frac{49}{x}$$

$$-vk_0 - \frac{qa}{x} + \dots \Rightarrow \frac{1}{x} \Rightarrow \frac{1}{x} = \frac{1}{x} - \frac{qa}{x} \Rightarrow \frac{1}{x} = 1$$

$$1, 4, 16, \dots \Rightarrow q^4 = \frac{1}{16} \Rightarrow q = \frac{1}{2}$$

$a + v d \quad a + v d \quad a + v d$ $\Rightarrow (a + v d)^2 = (a + v d)(a + v d) \Rightarrow v d^2 = -v d a \Rightarrow v d^2 + v d a = 0$ $\Rightarrow d(1 d + a) = 0 \quad \left\{ \begin{array}{l} d = 0 \\ d = -\frac{a}{1} \end{array} \right.$ $\Rightarrow \frac{1}{\omega} a, \frac{1}{\omega} a, \frac{1}{\omega} a \Rightarrow d = \frac{1 a}{\omega} - \frac{v a}{\omega} = -\frac{1}{1} a$	6
$a + d, a + v d, a + v d \Rightarrow (a + v d)^2 = (a + d)(a + v d)$ $\Rightarrow d^2 + v d^2 + v d a = d^2 + v d a + v d^2 \Rightarrow v d^2 - v d a = 0 \Rightarrow d(d - a) = 0$ $\Rightarrow \left\{ \begin{array}{l} d = 0 \\ d = a \end{array} \right. \quad \text{CCE}$ $\Rightarrow v a, v a, v a \Rightarrow \phi = v$ $\Rightarrow Z_0 = \frac{1}{2} \times v^2 = v^2 = \underline{v \omega v}$	v
$v a \phi, v a \phi^v, a \phi^w \Rightarrow v a \phi^v - v a \phi = a \phi^w - v a \phi^v$ $\Rightarrow v \phi - v = \phi^v - v \phi \Rightarrow \phi^v - v \phi = -v \Rightarrow \phi(\phi - v) = -v$ $\Rightarrow \phi \left\{ \begin{array}{l} 1 \\ v \end{array} \right. \quad \text{CCE}$	A
$v, \frac{v}{\varepsilon}, \dots \Rightarrow \tau_n = \frac{1}{\varepsilon} n + \frac{a}{\varepsilon} \Rightarrow \frac{a}{\varepsilon} \quad \frac{1}{\varepsilon} \quad -1$ $\left(\frac{1}{\varepsilon} + x\right)^2 = \left(\frac{a}{\varepsilon} + x\right)(-1 + x) \Rightarrow \frac{1}{14} + x + \frac{x}{\varepsilon} = x + \frac{x}{\varepsilon} + \frac{a}{\varepsilon}$ $\frac{x}{\varepsilon} = -\frac{19}{14} \Rightarrow x = -\frac{19}{\varepsilon} \Rightarrow -\frac{14}{\varepsilon}, -\frac{1}{\varepsilon}, -\frac{19}{\varepsilon}$ $\Rightarrow \phi = \frac{a}{\varepsilon}$	9
$a + a \phi^v + a \phi^w = v \varepsilon \Rightarrow a(1 + r^v + r^w) = v \varepsilon \quad \underline{I} \quad b = \frac{v \varepsilon}{a(1 + r^v + r^w)}$ $b_1 = a r^v, b_2 = a, b_3 = a \phi^w, \underline{b_i = b_i d} \Rightarrow a + d = a \phi^v \Rightarrow d = a \phi^v - a = a(\phi^v - 1)$ $b_1 = b_1 + q d \Rightarrow a + q d = a \phi^v \Rightarrow q d = a(\phi^v - 1) \Rightarrow \frac{q d}{d} = \frac{a(\phi^v - 1)}{d}$ $\Rightarrow r^v + 1 = q \Rightarrow r = v \quad \underline{I} = a(1 + v + v \varepsilon) \Rightarrow a(v \varepsilon) = v \varepsilon \Rightarrow \underline{a = 1}$ $d = a(\phi^v - 1) = \underline{v}$	1;