

$q_1 + d_2 + d_3 = 21$ $d_1 + d_2 = 17$ $\Rightarrow q_1 = 1$ $d_1 = 16$
 $d_1 \times d_2 \times d_3 = 4f$ $d_1 \times d_2 = 16$ $d_2 = 16$ $d_2 = 1$
 $d_2^3 = 4f$ $q = \frac{1}{2}$ حالت ۲ درست است
 $\Rightarrow 42 = f$ $d + d^2 + d^3 = 4$ $d = 1$ $d = 1$ $d = 1$
 $d \times d^2 \times d^3 = 4f = d^6 = 4f$ $d = 1$ $d = 1$ $d = 1$
 $\frac{f}{2} (1 + 2 + 2^2) = 21 \Rightarrow f = 14$ $f + f^2 + f^3 = 212$ $f^3 - 17f + f = 0$
 $q^2 - 17q + 16 = 0$ $q_1 = 16$ $q_2 = 1$ $q_1 = 16$ $q_2 = 1$
 $(q - 16)(q - 1) = 0$ $q_1 = 16$ $q_2 = 1$ $q_1 = 16$ $q_2 = 1$

$(x^r)^2 = (x^r - r)(x^r + r) = x^r + r x^r - r x^r - r^2 \wedge$
 $r x^r = x^r + r x^r - r^2 \rightarrow x^r - r x^r - r^2 = 0$
 $(x^r + r)(x^r - r) = 0 \Rightarrow x^r = -r x$
 $x^r = r \Rightarrow x = \pm r$

$x^r + r = \boxed{\wedge} \rightarrow x = -r \rightarrow x^r - r = r$
 حسی اول

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جیبی ایل
ارام؟ $= S_V = \frac{a_1 (1 - q^N)}{1 - q} = \frac{12V}{\wedge}$

$$1 + q + q^r + q^m + q^k = \frac{|A|}{|I|} \quad S_A = d_1 + d_1 q + d_1 q^r + d_1 q^m + d_1 q^k = d_1 (1 + q + q^r + q^m + q^k)$$

$$d_1 = \frac{|I|}{|A|} \quad S_A = \frac{|I|}{|A|} \times \frac{|A|}{|I|} = 1$$

$(1, 4f)$
 $dl = 1 \quad dv = 4f \quad df = A$
 اگر بینج واسطی حسابی درج کنیم
 $A+B=1$
 $r = \frac{d}{m+1}$
 $r^y = 4f \Rightarrow r = \pm 2$
 $df = d(r^m) = 1 \times r^m = \pm 1 = B$

$$A+B = 1 + \frac{1}{2} = \frac{3}{2}$$

$+ \frac{1}{f}$

$-2f$ و $-\frac{9d}{f}, \dots$ ریشه‌های صحیح
 $|a| = |c_n|$

$12n > d_2, \dots$ ریشه‌های منفی

$\Rightarrow r^v = \frac{1}{12n} \Rightarrow r = \frac{1}{r}$

$-2f = -\frac{9d}{f} \quad d = \frac{1}{f}$

$|a| = c_1 + 100d = -2f + \frac{100}{f} = 1 = d/r^v$

(۲) ✓

$$d_1 + 2d = d \quad d_1 + 9d = 9q \quad d_1 + 18d = 18q^2$$

$$-4d_1 - 2fd = -4d_9 \quad 3d_1 + 2fd = 3d_9^2$$

$$3d_9^2 - 4d_9 = -d \quad 3d_9^2 - 4d_9 + d = 0$$

$$d(3d_9^2 - 4d_9 + 1) = 0$$

$$d(9^2 - 4q + 1) = 0$$

$$d(9^2 - 4q + 1) = 0 \quad 91 = 3 \rightarrow 1$$

$$d(9-3)(9-1) = 0 \quad 92 = 1 \rightarrow \frac{1}{2}$$

$$(a_1 + 18d) (a_1 + 2d) = (a_1 + 9d)^2$$

$$\rightarrow a_1 = 1, d = 1 \quad d = 0 \quad \checkmark$$

$$d_1 + d = d \quad d_1 + 2d = 2q \quad d_1 + 3d = 3q^2 \quad d_1 = \frac{1}{2}$$

$$-7d_1 - 2fd = -7d_9 \quad d_{10} = d_{19} = \frac{1}{2} \times \left(\frac{1}{2}\right)^9 = \frac{1}{2} \times \frac{1}{2^9} = \frac{1}{2^{10}}$$

$$3d_1 + 2fd = 3d_9^2$$

$$-4d_1 = 3d_9^2 - 7d_9 \rightarrow 3d_9^2 - 7d_9 + d = 0$$

$$d(3d_9^2 - 7d_9 + 1) = 0$$

$$d(9^2 - 7q + 1) = 0$$

$$d(9^2 - 7q + 1) = 0 \quad 91 = 3 \rightarrow 1 \quad 1 \times \rightarrow \text{قبول}$$

$$d(9-3)(9-4) = 0 \quad 91 = 3 \rightarrow 1 \quad 92 = 4 \rightarrow \frac{1}{2}$$

$$8 = 2 \rightarrow a_1 = a_1 \times 9^9 = 128 \quad 92 = 4 \rightarrow \frac{1}{2}$$

$$(a_1 + 3d) (a_1 + d) = (a_1 + 2d)^2$$

$$\rightarrow a_1 = d$$

سرعید سیکڑا
کے رہنمائی حساب
هندسی میزشتہ

$$3d_1r - 2d_2 - d_3 \rightarrow 3d_1r = 3d_1r - 2d_2 = 2d_1r^2 - d_3 = d_1r^3$$

$$r(2d_1r^2) = 2d_1r + d_1r^3$$

$$2d_1r^3 = 2d_1r + d_1r^3$$

$$d_1r^3 = 2d_1r + d_1r^3 \rightarrow r^3 - r^2 - 2r = 0 \rightarrow$$

$$(r-1)(r-2) = 0$$

$$\Rightarrow r_1 = 1 \quad r_2 = 2$$

$$\Rightarrow \text{چون رہنمائی}$$

$$-\frac{1}{2}$$

$$2 \times \frac{1}{4} \dots \rightarrow \text{رہنمائی حساب}$$

$$d_4 = d_1 + 3d = 2 + \frac{3}{2} = 1 \frac{1}{2} = \frac{5}{2}$$

$$d_{12} = d_1 + 12d = 2 + 3 = -1$$

$$d_8 = d_1 + 7d = 2 + \frac{7}{2} = \frac{11}{2}$$

$$\frac{d}{2} + \frac{-1}{2} = -\frac{1}{2} = -f$$

$$-1 + \frac{11}{2} = -\frac{1}{2}$$

$$\frac{1}{2} + \frac{11}{2} = \frac{12}{2} = 6$$

$$\frac{1}{14} + \frac{5}{2} = -\frac{1}{2} \Rightarrow x = \frac{1}{14} \times \frac{1}{2} = -\frac{1}{28}$$

$$\left(\frac{1}{2} + x\right)^2 = (-1 + x)\left(\frac{5}{2} + x\right)$$

$$\frac{1}{4} + x^2 + \frac{1}{2}x = -\frac{5}{2} - x + \frac{5}{2}x + x^2 = -\frac{5}{2} + \frac{3}{2}x + x^2$$

$$\frac{1}{4} + \frac{5}{2} = -\frac{1}{2}x \rightarrow \frac{11}{4} = -\frac{1}{2}x \Rightarrow x = \frac{11}{4} \times \frac{1}{2} = -\frac{11}{8}$$

$$r = \frac{5}{2} = \left[\frac{5}{2}\right] \quad \checkmark$$

$$d + d_1r^2 + d_2r^4 = 12 \Rightarrow d(1 + r^2 + r^4) = 12 \Rightarrow d(1 + 1 + 1) = 12$$

$$\Rightarrow d = 1$$

$$d = A = 1$$

$$d_2r^2 = A + d = 1 \quad d_2r^2 = 1 + 1 = 2 \Rightarrow d_2 = 2$$

$$d_2r^2 = A + 9d \Rightarrow 2r^2 = 1 + 9 = 10 \Rightarrow r^2 = 5 \Rightarrow r = \sqrt{5}$$

$$\Rightarrow r^2 + 1 = 9 \Rightarrow r^2 = 8 \Rightarrow r = 2$$

$$r = 1 \rightarrow d = 0 \rightarrow \text{قابل قبول است}$$