

1.16

$$\begin{cases} S = a + B = a - r \\ P = aB = r \end{cases} \Rightarrow \begin{cases} a = a - B \\ B = a - a \end{cases} \quad (1)$$

حل:

$$B^2 - aB + r = 0 \rightarrow B^2 = aB - r \rightarrow B^2 = aB - 2B = 2B - 10 = 2B - 10$$

$$B^2 = 2B - 10 \Rightarrow 10B - 2B = 10 \Rightarrow 8B = 10 \Rightarrow B = \frac{5}{4}$$

$$B^2 = 10a(2B - 10) - 2B = 40B - 20 = 40B - 20$$

$$\frac{4a + B^2}{aB^2} = \frac{20 - 4B + 40B - 20}{20B - 10} = \frac{36B - 10}{20B - 10} = \frac{9B - 2.5}{5B - 2.5}$$

$$x = ax^2 + bx + c \quad \begin{cases} -4 = 2 \times 5a - 1 \times 5b + c \\ -4 = 9a + 3b + c \end{cases} \Rightarrow \begin{cases} 2 \times 5a - 1 \times 5b + c = 9a + 3b + c \\ 2 \times 5a = 9a + 3b \end{cases} \quad (2)$$

$$\frac{b}{a} = -1/5$$

$$\text{مجموع صفها} = \text{مجموع صفها} = \frac{-b}{a} = 1/5$$

$$\text{الضلع} = \frac{\sqrt{A}}{|a|} = \left(\frac{\sqrt{k^2 - 20}}{1} = \frac{1}{10}k \right)^2 = k^2 - 20 = \frac{1}{100}k^2$$

$$\sqrt{k^2 - 20} = \frac{k}{10} \Rightarrow k^2 - 20 = \frac{k^2}{100} \Rightarrow \frac{99k^2}{100} = 20 \Rightarrow k^2 = \frac{2000}{99} \approx 20.2$$

$$\left[\frac{k^2}{100} \right] = \left[\frac{99}{100} \right] = \frac{99}{100} \Rightarrow k^2 - 20 = \frac{14k^2}{99} \Rightarrow k^2 = 9$$

$$A = (3, 2) \rightarrow 9a + 3b + c = 2$$

$$B = (-5, 2) \rightarrow 25a - 5b + c = 2$$

$$\text{مجموع الصف} = \frac{-b}{a} = 1 \rightarrow \frac{-b}{a} = 1 \Rightarrow b = -a$$

$$a^2 + b^2 = 5^2 - 2P \rightarrow 4 - 2P = 5 \rightarrow 2P = -1 \rightarrow P = -\frac{1}{2} \rightarrow C = 9$$

$$A \rightarrow 2a + 11m \geq 0 \rightarrow m \geq -\frac{2a}{11} \rightarrow m \geq -5/25$$

مقدار 14

$$S < \frac{1}{2} = 9 \quad 9 = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \rightarrow \frac{-a \pm \sqrt{2a + 11m}}{-2}, \frac{9}{2}$$

(40-6)

$$P < \frac{9}{2} \times \frac{9}{2} = \frac{81}{4}$$

$$-m < \frac{81}{4}$$

$$m > -\frac{81}{4}$$

$$m > -20/25$$

$$0 \leq 2a + 11m \leq 14$$

$$-4.25 \leq m < -2.25$$

نیز برای

$$x = \frac{-a}{2a} \rightarrow \frac{144 - 20m^2 + 11m}{11m} = -2 \rightarrow -20m^2 + 11m + 144 = 0$$

$$-20m^2 + 11m + 144 = 0$$

$$\Delta = 9 - (-144) = 153$$

$$\frac{-b \pm \sqrt{\Delta}}{2a} \rightarrow \frac{-3 \pm 12}{-10}$$

باید a باشد

$$x = \frac{-b}{2a} = \frac{12}{20} = \frac{3}{5} = 0.6$$

(2) ✓

$$S = \frac{-2a - 2}{1} = -2a - 2 = a + \beta$$

شماره برای دهم

$$P = \frac{2a - 1}{1} = 2a - 1 = a + \beta \rightarrow \frac{a}{2} \times a = 2a - 1$$

$$a^2 - 2a + 1 = 0$$

$$a = 1$$

$$a = 1$$

$$x^2 + 4x + 1 = 0$$

$$\rightarrow \Delta < 0$$

$$x^2 = t \rightarrow t^2 - vt - a = 0$$

پاس منفی

$$2P^2 - 3SP + 2S = 50 + 10a + 14 = 64$$

$$S = \frac{-b}{a} = 7$$

$$P = \frac{c}{a} = -5$$

$$x = \frac{15}{2k} = \frac{p}{k}$$

$$y = \frac{-a}{2a} = \frac{-15 - 14k}{2k} = \frac{-15 - 14k}{k}$$

$$\frac{-15 - 14k}{k} = \frac{-15 - 14k}{k}$$

$$+15k + 14k^2 = +15k + 14k^2$$

$$14k^2 - 14k = 0$$

$$\Delta = 15$$

$$\Delta = 15$$

$$\frac{15 \pm 15}{2} = k \rightarrow 0, 15$$

Arman

(10)

$$-m \cdot 2^r + m \cdot 2^r + 1 = -m - 2^r$$

$$-m \cdot 2^r + 2^r(m+1) + m + 1 = 0$$

$$\Delta = m^r + 1 + 2m + 2m^r + 2m < 0$$

بما أن $2m^r$ و $2m$ هما عددان زوجيان

$$2m^r + 5m + 1 < 0$$

$$\Delta = 15 \rightarrow m = \frac{-5 \pm \sqrt{15}}{10}$$

$$\begin{matrix} -1 \\ -\frac{1}{2} \end{matrix}$$

$$\begin{matrix} + & - & + \\ \hline & - & + \end{matrix}$$

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

✓

$$S = \frac{-b}{a} = 5$$

$$P = \alpha\beta = 2$$

-1

$$\rightarrow \alpha\beta = 2 \rightarrow \beta = \frac{2}{\alpha} \rightarrow \beta^2 = \frac{4}{\alpha^2}$$

$$\frac{4\alpha + \beta^2}{5\beta^2} = \frac{4}{5} \frac{\alpha}{\beta^2} + \frac{\beta^2}{5} = \frac{4}{5} \frac{\alpha}{\frac{4}{\alpha^2}} + \frac{\beta^2}{5}$$

$$\frac{\alpha^3 + \beta^3}{5} = \frac{5^3 - 3SP}{5} = 19$$

۴۔ اس میں بیانیہ نقطہ است۔

$$as = -\frac{b+r}{r} = -1$$

$$-\frac{b}{ra} \rightarrow -\frac{b}{a} = -r = 5$$

$$(y-1) = a(x+1)^2 \rightarrow \frac{ay^2}{a} + \frac{2ay}{b} + \frac{a+1}{c}$$

مسطح میں =

$$\alpha^2 + \beta^2 = 5 \rightarrow 5^2 - 2P = 5 \quad \frac{s=-r}{P=\frac{a+1}{a}} \rightarrow$$

$$-\frac{2a-r}{a} = +1 \rightarrow a = -\frac{r}{2}$$

$$C = a+1 = \frac{1}{2}$$

$$x^2 - vx - b = 0$$

$$x' + x'' = 5$$

$$x'x'' = p$$

-1

$$x^2 = t \quad t^2 - vt - b = 0$$

$$t = \frac{v \pm \sqrt{49}}{2}$$

$$x = \pm \sqrt{\frac{v \pm \sqrt{49}}{2}} \Rightarrow S = 0$$

$$P = -\frac{v + \sqrt{49}}{2}$$

$$2P^2 - 3SP + 2S = 2 \left(-\frac{v + \sqrt{49}}{2} \right)^2 =$$

$$69 + v\sqrt{49}$$

