

$$\alpha = 2\beta$$

$$S = 1\beta = \frac{\alpha}{2}$$

$$P = 2\beta = \frac{\alpha}{1}$$

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$$\left\{ \begin{array}{l} \beta = \frac{\alpha}{2} \rightarrow \alpha = 2 \\ \beta = -\frac{\alpha}{2} \rightarrow \alpha = -2 \end{array} \right.$$

$$\frac{\alpha}{2} = 2 + \frac{\alpha}{2}$$

$$\alpha = 2$$

$$\left. \begin{array}{l} \alpha = 2 \\ \alpha = -2 \end{array} \right\} \rightarrow \alpha = 1$$

$$\frac{\alpha}{2} = -2 - \frac{\alpha}{2}$$

$$\alpha = -2$$

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$$\frac{1}{\sqrt{\alpha}} + \frac{1}{\sqrt{\beta}} = \omega$$

$$\frac{\sqrt{\alpha} + \sqrt{\beta}}{\sqrt{\alpha\beta}} = \omega$$

$$\frac{1}{\sqrt{\alpha\beta}} \rightarrow \frac{1}{\sqrt{\alpha\beta}}$$

$$\sqrt{\alpha} + \sqrt{\beta} = \frac{\omega}{\sqrt{\alpha\beta}} \quad \left(\frac{1}{\sqrt{\alpha\beta}} \right) \rightarrow \alpha + \beta + 2\sqrt{\alpha\beta} = \frac{\omega^2}{\alpha\beta}$$

$$\frac{1+1}{2} + 2\sqrt{\frac{1}{2}} = \frac{\omega^2}{2}$$

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$$\frac{11-h}{24} = \frac{1}{2} \rightarrow h = 11$$

$$11-h = 12 \quad h = -1$$

$$-x^2 + 3x + 1 = 0$$

$$P = \frac{1}{-1} = -1$$

$$(r_1, \omega, \alpha, \beta) + (r_2, \omega, \alpha, \beta) = 15r + 11\omega$$

$$\alpha < \beta \rightarrow \omega$$

$$r_1\omega(\alpha + \beta) + r_2\omega(\alpha + \beta) = 15r + 11\omega \quad \times \frac{1}{\omega} \rightarrow \omega(\alpha + \beta) + (\alpha + \beta) = 15r + 11\omega$$

$$\omega(\alpha + \beta) - 5 \times \frac{\sqrt{15-11}}{1} = \omega(15-11) + 9 \times \frac{\sqrt{15-11}}{1} = 15r + 11\omega$$

$$S = -7 \quad P = \alpha$$

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$$11 \cdot \frac{-1 \cdot \alpha}{\alpha + 1} + 9 \sqrt{\frac{15-11}{\alpha + 1}} = 15\sqrt{15} + 11\omega \Rightarrow \alpha = 1$$

$$\Rightarrow \alpha = 1$$

$$\alpha + \beta = 1 \rightarrow \alpha + \beta + 2\sqrt{\alpha\beta} = 1$$

$$\alpha + \beta + 2(-1)(1) = 1$$

$$\alpha + \beta = 1$$

$$\alpha + \beta = 1 \rightarrow \alpha + \beta + 2\sqrt{\alpha\beta} = 1$$

$$\alpha + \beta = 1$$

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$$r_1\alpha + r_2\alpha - 9\alpha - 1 + r_1\beta + r_2\beta - 9\beta - 1 = 0$$

$$r_1(\alpha + \beta) + r_2(\alpha + \beta) - 9(\alpha + \beta) - 2 = 0$$

$$11 + 6h - 9 - 2 = 0$$

$$6h = -1 \rightarrow h = -\frac{1}{6}$$

$$x^2 + t \rightarrow t^2 - vt - \omega = 0$$

$$\frac{v \pm \sqrt{v^2 + 4\omega}}{2} = \frac{v \pm \sqrt{49}}{2}$$

$$\frac{v \pm \sqrt{49}}{2} \rightarrow \frac{v \pm 7}{2} \rightarrow \frac{v \pm 7}{2}$$

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

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

$$S = 0$$

$$P = -\left(\frac{v \pm \sqrt{49}}{2}\right)$$

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$$P = \frac{(9+9) + 14\sqrt{49}}{2} = \frac{18 + 14\sqrt{49}}{2} = \frac{9 + 7\sqrt{49}}{1}$$

$$1P = 15P + 15 = 15 \times \frac{9 + 7\sqrt{49}}{1} = 135 + 1035\sqrt{49}$$

$$r_1 \alpha^2 + a \alpha - 4 = 0$$

$$s_1 = -\frac{1}{r}$$

$$p_2 = -\frac{r}{a} = \alpha\beta = -r$$

-9

$$r_1 \alpha^2 + a \alpha + b = 0$$

$$s_r = \frac{a}{r} = s_1 + 1$$

$$\frac{a}{r} = \frac{1}{r} \quad (a=1)$$

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$$p_2 = \frac{b}{r} = (\alpha + \omega)(\beta + \omega) = \alpha\beta\omega + \alpha\beta + \omega(\alpha + \beta)$$

$$\alpha\beta\omega = r + \omega(-\frac{1}{r}) = \frac{b}{r}$$

$$b = \alpha\beta\omega - 4 - \omega = -4$$

$$\left[-\frac{4 \times 1}{r}\right], \left[-\frac{r}{r}\right] = -r$$

$$s = 1 \quad p = -\frac{b}{a} = -r$$

$$r_1 \beta^2 + r_2 \alpha^2 + r_3 \beta^2 - r_4 \beta^2 = 1$$

$$r_1 (\alpha^2 + \beta^2) + r_2 (\beta^2 - \alpha^2) = 1$$

$$r_1 \left(1 + \frac{r_2 b}{a}\right) + r_2 \left(\frac{b}{a}\right) = 1$$

$$\alpha\beta^2 - \alpha\beta = b$$

$$\beta^2 - \beta = \frac{b}{a} \quad (5)$$

$$r_1 + \frac{r_2 b}{a} = 1$$

$$\frac{r_2 b}{a} = -r$$

$$\frac{b}{a} = -\frac{1}{r}$$

$$p = \frac{1}{r}$$

$$n^2 - s_1 n + p = n^2 - n + \frac{1}{r} = 0 \rightarrow \text{انقلاب} = \frac{\sqrt{D}}{2a} = \frac{\sqrt{1 - \frac{4}{r}}}{1} = \frac{\sqrt{1 - \frac{4}{r}}}{1} = \frac{\sqrt{r-4}}{r} = \frac{\sqrt{r-4}}{r}$$

$$\text{انقلاب} = r \quad n^2 - (a+1)n + a = 0$$

$$\frac{\sqrt{(a+1)^2 - 4a}}{1} = r$$

$$a^2 - 2a - r = 0$$

$$(a-r)(a+1) = 0$$

$$a = r$$

$$n^2 - r n + r = 0 \rightarrow n = r \checkmark$$

$$a = -1$$

$$n^2 - 1 = 0 \times$$

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$$n^2 - 1 \cdot n + b = 0$$

$$\text{انقلاب} = r = \sqrt{1 - 4b}$$

$$1 - 4b = r$$

$$4b = 94$$

$$b = 24 \rightarrow n^2 - 1 \cdot n + 24 = 0$$

$$p_1 = r$$

$$p_2 = 24 \rightarrow p_2 - p_1 = 21$$

$$\alpha^2 \beta^2 = s^2 - 2p = \frac{s^2 - 1}{p_1 - 1 - m^2} = 1 - r(-1 - r^2) = r m^2 + r \rightarrow \text{min} \left| \frac{r}{r} \right|$$

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ر = کترین مقدار

$$\frac{r - (-\omega)}{r} = 1 \rightarrow n_1 = -1 \rightarrow \text{ex} \left| \frac{-1}{1} \right|$$

$$a^2 + b^2 + c^2 = 1$$

$$a - b + c = 1$$

$$\alpha^2 \beta^2 = s^2 - 2p = \left(-\frac{b}{a}\right)^2 - 2\left(\frac{c}{a}\right) = 1 - \frac{rc}{a} = 1 \rightarrow \frac{rc}{a} = 0$$

$$\frac{rc}{a} = 0$$

$$\frac{b}{a} = 2$$

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$$a = -2c \rightarrow c - (-2c) = 1$$

$$rc = 1 \rightarrow c = \frac{1}{r}$$

من نقاط سه گانه