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A. H. H. H. H.

S. H. H. H. H.

$$\alpha = r\beta \Rightarrow r\beta + \beta = \varepsilon\beta = \frac{a}{r}$$

$$r\beta \times \beta = r\beta^2 = \frac{\varepsilon}{r} \Rightarrow \beta^2 = \frac{\varepsilon}{a} \Rightarrow \beta = \pm \frac{r}{r}$$

$$\beta = \frac{r}{r} \Rightarrow a = 1$$

$$\Rightarrow 1 - (-1) = 14$$

$$\beta = -\frac{r}{r} \Rightarrow a = -1$$

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

$$mn^2 + r^2 n + r = 0$$

$$\hookrightarrow \frac{r^2}{m} = -r$$

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

$$(\sqrt{\alpha} + \sqrt{\beta})^2 = \alpha + \beta + r\sqrt{\alpha\beta}$$

$$\Rightarrow \sqrt{S + \frac{1}{r}} = \frac{\omega}{r}$$

$$r = \frac{1}{r^2}$$

$$S = \frac{m+1\varepsilon}{r^2} = \frac{1}{r^2} \Rightarrow m = -1$$

$$S + \frac{1}{r} = \frac{r\omega}{r^2} \Rightarrow S = \frac{r\omega}{r^2}$$

$$\varepsilon n^2 + kn^2 - 9n - r = 0$$

$$\alpha + \beta = 1$$

$$\alpha\beta = -r$$

$$k = ?$$

$$(n - \alpha)(n - \beta) = n^2 - n - r$$

$$-(\alpha + \beta) \quad -\alpha \times -\beta$$

$$\Rightarrow (n - r)(n + 1) = 0 \Rightarrow n = r$$

$$m = -1$$

$$\Rightarrow \alpha = r, \beta = -1 \Rightarrow -\varepsilon + k + 9 - r = 0$$

$$k = -r$$

$$\alpha < \beta < 0 \Rightarrow S = \alpha + \beta = -4 \quad n^2 + 4n + a = 0 \quad r\alpha^2 + r\beta^2 = 14\sqrt{r} + 14\omega = \varepsilon$$

$$a = r^2 - \varepsilon a$$

$$\beta = -r - \sqrt{9 - a}$$

$$-r + \sqrt{9 - a}$$

$$\alpha < \beta \Rightarrow -r - \sqrt{9 - a} = \alpha$$

$$-r + \sqrt{9 - a} = \beta$$

$$\beta \vee \alpha = \frac{-4 \pm \sqrt{16 - \varepsilon a}}{2}$$

$$-r - \sqrt{9 - a}$$

$$\Rightarrow r(-r - \sqrt{9 - a})^2 + r(-r + \sqrt{9 - a})^2 = \omega\varepsilon + 14\sqrt{r} + 14\omega = \varepsilon$$

$$\Rightarrow 9r + 4r\sqrt{9 - a} - \omega a = 14\sqrt{r} + 14\omega \Rightarrow 14\omega - 14\sqrt{r} = \omega a - 9\sqrt{9 - a}$$

$$\Rightarrow 9r + 4r\sqrt{9 - a} - \omega a = 14\sqrt{r} + 14\omega \Rightarrow \omega = \omega a, -14\sqrt{r} = -9\sqrt{9 - a}$$

$$a = 1$$

$$n^2 - vn^r - a = 0 \Rightarrow t^r - vt - a = 0 \quad -\omega$$

$$\alpha + \beta = S$$

$$\alpha \cdot \beta = P$$

$$t = n^r \Rightarrow t > 0$$

$$\Delta = 29 - 2(1)(-\omega) = 49$$

$$t = \frac{v \pm \sqrt{49}}{2} = \frac{v - \sqrt{49}}{2} \rightarrow \text{عقبت}$$

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

$$\Rightarrow \sqrt{t} > 0 \text{ چون که } t > 0 \text{ و } \sqrt{t} \text{ همیشه مثبت است}$$

$$\hookrightarrow n = \pm \sqrt{\frac{v + \sqrt{49}}{2}} \Rightarrow S = 0, P = \frac{-v - \sqrt{49}}{2}$$

$$\Rightarrow r \left(-\frac{(v + \sqrt{49})}{2} \right)^r = \cancel{r} \times \left(\frac{29 + 49 + 12\sqrt{49}}{4} \right) = \frac{118 + 12\sqrt{49}}{2}$$

$$= \boxed{29 + v\sqrt{49}}$$

$$ran^r + an - c = 0$$

$$\omega_{\text{ریشه}} = \alpha, \beta, \alpha \cdot \beta = -r$$

$$\alpha + \beta = -\frac{a}{r} = \frac{1}{r}$$

$$\left[\frac{ab}{c} \right] = \left[\frac{4}{2} \right] = \boxed{-4}$$

$$ran^r - an + b = 0$$

$$\omega_{\text{ریشه}} = \alpha + \frac{1}{r}, \beta + \frac{1}{r}$$

$$\alpha + \beta + 1 = \frac{a}{r}$$

$$\Rightarrow \boxed{a = 1}$$

$$\Rightarrow \left(\alpha + \frac{1}{r} \right) \left(\beta + \frac{1}{r} \right)$$

$$= \alpha\beta + \frac{\alpha}{r} + \frac{\beta}{r} + \frac{1}{r^2}$$

$$\boxed{b = -4} \Rightarrow \frac{b}{r} = -r \Rightarrow -r - \frac{1}{r} + \frac{1}{r} = \boxed{-r}$$

$$an^r - an - b = 0$$

$$\Sigma \beta^r + r_0 \alpha^r - r_0 \beta = 1v \Rightarrow \Sigma \beta^r + r_0(1-\beta)^r - r_0 \beta = 1v$$

$$\Sigma \beta^r + r_0 + r_0 \beta^r - \Sigma \beta - r_0 \beta = 1v$$

$$\alpha + \beta = S = -\left(-\frac{a}{a}\right) = 1$$

$$r_0 \beta^r - r_0 \beta + r = 0$$

$$r_0 \beta^r - r_0 \beta + 1 = 0$$

$$\star \alpha = 1 - \beta$$

$$\beta = \frac{\omega + \sqrt{\omega}}{10} \Rightarrow \alpha = \frac{1 - \omega - \sqrt{\omega}}{10} = \frac{\omega - \sqrt{\omega}}{10}$$

$$\Rightarrow |\alpha - \beta| = \frac{2\sqrt{\omega}}{10} = \frac{\sqrt{\omega}}{5}$$

$$\Rightarrow |\alpha - \beta| = \frac{\sqrt{\omega}}{5}$$

$$\beta = \frac{r_0 \pm \sqrt{r_0^2 - 11r_0}}{2} = \frac{r_0 \pm \sqrt{r_0(r_0 - 11)}}{2} = \frac{r_0 \pm \sqrt{r_0} \sqrt{r_0 - 11}}{2}$$

$$\Rightarrow \alpha = \frac{1 - \omega - \sqrt{\omega}}{10} \Rightarrow \alpha - \beta = \frac{\omega - \sqrt{\omega}}{10} - \frac{r_0 \pm \sqrt{r_0} \sqrt{r_0 - 11}}{2}$$

$$2t+1, 2t+3$$

$$c = n^2 - (a+1)n + a = 0$$

-A

$$2t+3 = a+1 \Rightarrow a = 2t+2$$

$$2t^2 + 12t + 13 = a$$

$$2k, 2k+2$$

$$2k+2 = 3a+1 \Rightarrow a = \frac{2k+1}{3}$$

$$\Rightarrow 2t^2 + 12t + 13 = 2t+2$$

$$2k^2 + 2k = b$$

$$14 + 1 = 2 \times 7$$

$$2t^2 + 2t = 0$$

$$\frac{2k+1}{3} = 7$$

$$2t(t+1) = 0 \Rightarrow t=0, t=-1$$

$$\Rightarrow a=3$$

$$2k+1=9$$

$$k=4$$

چون t و k اعداد صحیح باشند

$$\Rightarrow |3-2 \times 7| = 11$$

$$n^2 + n - 1 - m^2 = 0$$

معادله درجه دوم

-9.

$$\alpha^2 + \beta^2 = S^2 - 2P = 1 + 2 + 2m^2 = 3 + 2m^2 = 3$$

$$S = -1$$

$$P = \frac{-1 - m^2}{1}$$

$$0 = 2m^2 \Rightarrow m = 0$$

$$y_5 = 1$$

$$an^2 + bn + c$$

$$a - b + c = 1$$

$$(-\omega, y), (x, y) - 10.$$

$$\alpha, \beta$$

$$\alpha^2 + \beta^2 = \omega = S^2 - 2P$$

$$n_5 = \omega = 0$$

$$\Rightarrow S - 2P = \omega \Rightarrow P = \frac{S - \omega}{2}$$

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

$$n_5 = \frac{3 - \omega}{2} = -1$$

$$n_5 = \frac{-b}{2a} = -1$$

$$\alpha + \beta = \frac{-b}{a} \Rightarrow 2n_5 = S$$

$$S = -1$$

$$14a - 11b = 0 \Rightarrow 14a = 11b$$

$$a = \frac{11b}{14}$$

$$\frac{b}{14} - b + c = 1$$

$$\frac{1}{\frac{b}{14}} = -\frac{1}{14} \Rightarrow \frac{14}{b} = -\frac{1}{14}$$

$$2c = -b$$

$$b - 11b + 14c = 14 \Rightarrow 10c - b = 14$$

PAPCO

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

$$b = -2c$$