

17, 5

نام و نام خانوادگی: کلاس: ۱۲ پاسنامه تشریحی تکلیف شماره: ۱۲

$$x^2 + 3x = am + \varepsilon$$

$$r = \frac{\varepsilon}{p} \rightarrow a + 3a = \frac{\varepsilon}{p} \rightarrow 4a = \frac{\varepsilon}{p} \rightarrow a = \frac{\varepsilon}{4p}, \quad \varepsilon = p$$

$$s = \frac{a}{p} \rightarrow \frac{a}{p} = p + \frac{p}{p} = \frac{1}{p}$$

$$\rightarrow \frac{a}{p} = -p - \frac{p}{p} = -\frac{1}{p}$$

$$\rightarrow \frac{1}{p} - (-\frac{1}{p}) = \frac{2}{p}$$

$$\sqrt{\frac{1}{a}} + \sqrt{\frac{1}{b}} = \omega \xrightarrow{\text{مربع}} \frac{1}{a} + \frac{1}{b} + 2\sqrt{\frac{1}{ab}} = \omega^2 \rightarrow \frac{1}{a} + \frac{1}{b} + 12 = 2\omega$$

$$\xrightarrow{\text{مربع}} \frac{1}{a^2} + \frac{1}{b^2} + \frac{2}{ab} = \omega^4 \rightarrow \frac{m+1}{p^2} = 13 \rightarrow \frac{m+1}{p^2} \times p^2 = 13 \rightarrow m+1 = 13 \rightarrow m = 12$$

$$4a^2 - (m+1)a = 0 \rightarrow a = \frac{1}{4} \rightarrow ab = \frac{1}{4}$$

$$p = -2 \rightarrow m \times p + 3m + 1$$

$$s = 1, p = -2 \rightarrow x^2 - 2x - 2 = 0 \rightarrow (x+1)(x-2) = 0 \rightarrow x = -1$$

$$\rightarrow x = 2$$

$$\begin{matrix} \varepsilon a^2 + 3a \\ -4a^2 \end{matrix} \xrightarrow{\begin{matrix} n = -1 \\ n = 2 \end{matrix}} \begin{matrix} -\varepsilon + k + 9 - 2 = 0 \\ 4\varepsilon + 2k - 18 - 2 = 0 \end{matrix} \rightarrow \begin{matrix} k = -1 \\ k = -1 \end{matrix}$$

$$x^2 + 4x + a = 0 \rightarrow a + 4 = -4 \rightarrow a = -8 \rightarrow x^2 + 4x - 8 = 0 \rightarrow (x+6)(x-2) = 0 \rightarrow x = -6$$

$$3a^2 + 2b^2 = p(a^2 + b^2) + a^2 = p(34 - 2a) + a^2 = 112 - 2a + a^2$$

$$(b-a)^2 = (a+b)^2 - 4ab = 34 - 4a \rightarrow b-a = \sqrt{34-4a} \rightarrow a = \frac{-4 \pm \sqrt{34-4a}}{2}$$

$$\rightarrow 112 - 2a + 11 - a + 3\sqrt{34-4a} = 40 - 2a + 3\sqrt{34-4a}$$

$$a^2 = 11 - a + 3\sqrt{34-4a}$$

$$40 - 2a = 11 - a \rightarrow a = 15$$

$$x^2 = t \rightarrow t^2 - 4t + a = 0 \rightarrow x = \sqrt{49} \rightarrow t = 5 \pm \sqrt{49}$$

$$x = \frac{5 + \sqrt{49}}{2} \rightarrow x = \frac{5 + 7}{2} = 6 \rightarrow s = 0$$

$$2p = 2 \left(\frac{5 + \sqrt{49}}{2} \right) \left(-\sqrt{\frac{5 + \sqrt{49}}{2}} \right) = 59 + 11\sqrt{49}$$

$$r_n^r - a_n + b = \begin{cases} S = \frac{a}{r} \\ P = \frac{b}{r} \end{cases} \quad r a n^r + a n - 4 = \begin{cases} S = \frac{-1}{r} \rightarrow \alpha + \beta = \frac{1}{r} = \frac{a}{r} \rightarrow \alpha = 1 \\ P = -r \rightarrow b = -4 \end{cases}$$

$$\left[\frac{ab}{r} \right] = -r$$

$$r n^r - a n + b = \dots \rightarrow r a n^r + a n - 4 = \dots$$

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

$$\alpha \times \beta = \frac{-4}{ra} = -r$$

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

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

$$\rightarrow \alpha + \beta = \frac{a-r}{r} \rightarrow P = \frac{b}{r} \rightarrow b = \left(\frac{ra}{r} \right)$$

$$\left[\frac{ab}{r} \right] = \left[-\frac{ra}{r} \right] = [-1-r] = (-r)$$

$$\alpha = 1 - \beta \quad r \cdot \beta^r + r \cdot (1 - \beta)^r - r \cdot \beta = 1 \Rightarrow r \cdot \beta (\beta - 1) = -1 \rightarrow \alpha \beta = \frac{1}{r} = -\frac{b}{a}$$

$$\rightarrow m - n = \frac{\sqrt{\Delta}}{r \cdot b a}$$

$$n = a^r + \epsilon a b \rightarrow |m - n| = \frac{\sqrt{a^r + \epsilon a b}}{|a|} = \sqrt{1 + \frac{\epsilon b}{a}}$$

$$\epsilon a b^r + r a^r - r b = 1 \quad \div r \rightarrow r b^r + a^r - b = 1/r$$

$$a + \epsilon a b = a^r + \epsilon b^r - \epsilon b^r + \epsilon a b$$

$$\hookrightarrow (a + r b)^r - r b^r + b = 1/r \rightarrow \frac{\epsilon b}{a} > \frac{1}{r} \rightarrow |m - n| = \sqrt{1 + \frac{1}{r}} = \left(\frac{\sqrt{a}}{r} \right)$$

$$n^r - (a + 1) n + a = \dots \rightarrow S = r n + r = a + 1$$

$$n, n + r \quad \rightarrow P = a = n^r + n$$

$$r n + r = n^r + r n + 1 \rightarrow n^r = 1$$

$$a = 1 \times r = r \quad n = 1$$

$$n^r - (r a + 1) n + b = \dots \rightarrow a = r \rightarrow n^r - b n + b = 0$$

$$S = r k + (r k + r) = b \rightarrow \epsilon k + r = b \rightarrow k = r \quad b = \epsilon \times r = r \epsilon$$

$$b = \epsilon \times r = r \epsilon \quad b = \epsilon \times r = r \epsilon$$

$$\alpha^r + \beta^r \rightarrow \alpha + \beta = 1$$

$$\rightarrow \alpha \beta = -1 - m^r$$

$$\rightarrow (\alpha + \beta)^r = \alpha^r + \beta^r + r \alpha \beta = 1$$

$$\alpha^r + \beta^r = 1 - r \alpha \beta \rightarrow 1 + r(1 + m)^r$$

$$\rightarrow r + r m^r = \alpha^r + \beta^r \quad \xrightarrow{m=0} \alpha^r + \beta^r = r$$

$$n_s = \frac{r(-d)}{r} = -1 \rightarrow y = k(n+1) + 1 \quad a = -1 - d \rightarrow b = -1 + d$$

$$\alpha^r + \beta^r = (-1 - d)^r + (-1 + d)^r = r(1 + d)^r \rightarrow r(1 + d)^r = d \rightarrow d = \frac{r}{r}$$

$$o = k(d)^r + 1 \rightarrow k = -r/r \rightarrow y = -r/r(n+1)^r + 1$$

$$y = -\frac{r}{r}(1) + 1 = \left(\frac{1}{r} \right)$$