

نام و نام خانوادگی: پاسخنامه تشریحی تکلیف شماره ۱۹... کلاس: نهم

$$S = a + \beta \quad D = \alpha \beta \quad 2a^2 - a + \alpha^2 = 0 \rightarrow S = \frac{a}{\beta} \Rightarrow \alpha + \beta = \frac{a}{\beta}$$

$$\alpha = \frac{a}{\beta} \Rightarrow \frac{a}{\beta} + \beta = \frac{a}{\beta} \Rightarrow \beta = \frac{a}{11}$$

$$\alpha \beta = \frac{a}{\beta} \Rightarrow \frac{a}{\beta} = \frac{a}{\beta} \Rightarrow \beta^2 = \frac{a}{\beta} \Rightarrow \beta = \frac{a}{11} \Rightarrow a = 11\beta$$

$$\alpha_1 = -1 \quad \alpha_2 = 1$$

$$a_2 - a_1 = 1 - (-1) = 2$$

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$$24a^2 - (m+14)a + 1 = 0 \rightarrow S = \alpha + \beta = \frac{m+14}{24} \quad (I)$$

$$P = \alpha\beta = \frac{1}{24} \quad (II)$$

$$\frac{1}{\alpha} + \frac{1}{\beta} = a \rightarrow \frac{1}{a} + \frac{1}{\beta} = \frac{1}{\beta} \Rightarrow \frac{1}{a} = 0 \Rightarrow a = \infty$$

$$\frac{m+14}{24} + \frac{1}{24} = 20 \Rightarrow m+14+1=48 \Rightarrow m=33$$

$$-a^2 + 2m + 2 = 0 \Rightarrow -a^2 + 66 + 2 = 0 \Rightarrow a^2 = 68 \Rightarrow a = \sqrt{68}$$

$$P = \frac{1}{24} = \frac{1}{24}$$

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$$\alpha\beta = -2 \quad \alpha + \beta = 1 \rightarrow \frac{-2}{\beta} + \beta = 1 \rightarrow \beta^2 - \beta - 2 = 0$$

$$\beta = 2 \text{ or } \beta = -1$$

$$\alpha = -1 \text{ or } \alpha = 2$$

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$$a = -1 \Rightarrow 4(-1) + k(-1)^2 + 9 - 2 = -4 + k + 9 - 2 = 0 \Rightarrow k = -2$$

$$a = 2 \Rightarrow 4(2) + k(2)^2 + 9 - 2 = 8 + 4k + 9 - 2 = 0 \Rightarrow k = -3$$

$$2a^2 + 3\beta^2 = 12 \quad a^2 + 4a + 4 = 0 \rightarrow a = -2$$

$$\beta = 2 \text{ or } \beta = -1$$

$$a = -2 \Rightarrow 4(-2) + k(-2)^2 + 9 - 2 = -8 + 4k + 9 - 2 = 0 \Rightarrow k = 1$$

$$a = 2 \Rightarrow 4(2) + k(2)^2 + 9 - 2 = 8 + 4k + 9 - 2 = 0 \Rightarrow k = -3$$

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$$m^2 - 4m + 4 = 0 \rightarrow m = 2$$

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

$$m = \pm \sqrt{\frac{v \pm 7}{2}} \rightarrow S = \alpha\beta \rightarrow S = \pm \sqrt{\frac{v \pm 7}{2}} \cdot \pm \sqrt{\frac{v \pm 7}{2}} = \frac{v \pm 7}{2}$$

$$P = \alpha\beta = \frac{v \pm 7}{2}$$

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$$r_1 x + r_2 y - a x + b = 0 \rightarrow \alpha, \beta \rightarrow S = \alpha + \beta = \frac{a}{r} \quad P = \frac{b}{r}$$

$$r_1 x + r_2 y - a x + b = 0 \rightarrow \alpha', \beta' \rightarrow S = \alpha' + \beta' = -\frac{b}{a} = -\frac{1}{r_1 a} = -\frac{1}{r}$$

$$P = \alpha \beta = \frac{c}{a} = -\frac{1}{r_1 a} = -\frac{1}{r} \quad \frac{a}{r} = -\frac{1}{r} \Rightarrow a = -1$$

$$\alpha = \alpha' \cdot 10 \quad \beta = \beta' \cdot 10 \Rightarrow \alpha + \beta = \frac{a}{r} \Rightarrow \alpha' + 10 + \beta' + 10 = \alpha' + \beta' + 1 = \frac{a}{r}$$

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

$$\alpha \beta = (\alpha' + 10)(\beta' + 10) = \alpha' \beta' + 10(\alpha' + \beta') + 100 \rightarrow P = \frac{b}{r} = \frac{1}{r} \Rightarrow b = 1$$

$$r_1 x + r_2 y - a x + b = 0 \rightarrow S = \alpha + \beta = \frac{a}{r} = 1, \quad P = \alpha \beta = -\frac{b}{a} = -1$$

$$r_1 (x - \alpha) + r_2 (y - \beta) = 1 \quad \alpha(\beta - \alpha) = b \rightarrow \beta - \alpha = \frac{b}{a}$$

$$r_1 (x - \alpha) + r_2 (y - \beta) = 1 \quad |x - \alpha| = \frac{a}{|a|} = \frac{a}{a} = 1 \quad |y - \beta| = \frac{b}{|b|} = \frac{b}{b} = 1$$

$$r_1 (x - \alpha) + r_2 (y - \beta) = 1 \quad r_1 (1 - \alpha) + r_2 (1 - \beta) = 1 \quad r_1 + r_2 - r_1 \alpha - r_2 \beta = 1$$

$$r_1 x + r_2 y - a x + b = 0 \rightarrow a_1 = n \quad P = n_1 n_2 a \quad S = n_1 n_2 c = a + 1$$

$$r_1 x + r_2 y - a x + b = 0 \rightarrow a_1 = r_1 k \quad S = n_1 n_2 c = a + 1 \quad n_1 n_2 = a$$

$$S = -\frac{b}{a} = \frac{a+1}{a} \rightarrow a = r \quad n_1 = 1 \quad n_2 = r$$

$$P = b \rightarrow a_1 n_1 c = a + 1 \quad r_1 k = a + 1 \quad r_1 k = a + 1 \quad r_1 k = a + 1$$

$$r_1 x + r_2 y - a x + b = 0 \rightarrow a_1 = r_1 k \quad S = n_1 n_2 c = a + 1 \quad n_1 n_2 = a$$

$$r_1 x + r_2 y - a x + b = 0 \rightarrow S = \alpha + \beta = -\frac{b}{a} = -1$$

$$P = \alpha \beta = \frac{c}{a} = -\frac{1}{a}$$

$$\alpha' + \beta' = 5r - 10r = -5r$$

$$r_1 x + r_2 y - a x + b = 0 \rightarrow a_1 = r_1 k \quad S = n_1 n_2 c = a + 1 \quad n_1 n_2 = a$$

$$r_1 x + r_2 y - a x + b = 0 \rightarrow a_1 = r_1 k \quad S = n_1 n_2 c = a + 1 \quad n_1 n_2 = a$$

$$(-1, 1) \Rightarrow y = a_1 x + b_1 + c \rightarrow -\frac{b}{a} = -1 \quad b = r_1 a$$

$$y = a_1 x + b_1 + c \rightarrow S = -\frac{r_1 a}{a} = -r_1 \quad \alpha' + \beta' = 0 \rightarrow 5r - 10r = -5r$$

$$P = \frac{c}{a} \quad c = -\frac{1}{r} \quad c = -\frac{1}{r} \quad c = -\frac{1}{r}$$

$$\Rightarrow r - \frac{r}{a} = 0 \quad -1 = \frac{r}{a} \quad \frac{c}{a} = -\frac{1}{r} \quad c = -\frac{1}{r} \quad c = -\frac{1}{r}$$

$$y = a_1 x + b_1 + c \rightarrow a_1 = r_1 a \quad a_1 = r_1 a \quad a_1 = r_1 a$$

$$c = -\frac{1}{r} \quad c = -\frac{1}{r} \quad c = -\frac{1}{r} \quad c = -\frac{1}{r}$$