

نام و نام خانوادگی / شهر / روز / ماه پاسخنامه تشریحی تکلیف شماره کلاس

$$3x^2 - ax + f = 0$$

$$AB = 3\alpha^2 = \frac{f}{3} \rightarrow \alpha = \pm \frac{\sqrt{f}}{3}, \beta = \pm \sqrt{f}$$

$$\left. \begin{aligned} \frac{a}{3} = \alpha + \beta &\rightarrow \frac{\sqrt{f}}{3} + \sqrt{f} = \frac{a}{3} \rightarrow a = 1 \\ &\hookrightarrow -\frac{\sqrt{f}}{3} - \sqrt{f} = -\frac{a}{3} \rightarrow a = -1 \end{aligned} \right\} \boxed{14}$$

$$\frac{1}{\sqrt{a}} + \frac{1}{\sqrt{b}} = \frac{\sqrt{a} + \sqrt{b}}{\sqrt{ab}} = a \rightarrow \sqrt{a} + \sqrt{b} = \frac{a}{\sqrt{b}} \rightarrow a + b + \sqrt{ab} = \frac{a}{\sqrt{b}}$$

$$\hookrightarrow \sqrt{\frac{a}{b}} = \frac{1}{\sqrt{b}}$$

$$a + b + \frac{1}{\sqrt{b}} = \frac{a}{\sqrt{b}} \rightarrow a + b = \frac{1}{\sqrt{b}} = \frac{m+1f}{\sqrt{b}} \rightarrow m = -1 \rightarrow -x^2 + 3y + 2 = 0$$

$$\hookrightarrow \frac{c}{a} = \boxed{-2}$$

$$fx^2 + kx^2 - 9x - 2 = 0, \alpha + \beta = 1, \alpha\beta = -2 \rightarrow 2, -1$$

$$\text{if } x = -1 \rightarrow -f + k + 9 - 2 = 0 \rightarrow \boxed{k = -3}$$

$$P x'' + x - 9 = 0 \rightarrow x'' + x - 1P = 0$$

$$(x + \frac{9}{P})(x - \frac{1}{P}) = 0$$

$$\downarrow$$

$$\frac{1}{P}$$

$$\frac{P}{P} + \frac{1}{P} = P = \alpha$$

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

$$\left[\frac{ab}{P} \right] = \left[\frac{-9}{P} \right] = \boxed{-P}$$

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

$$\alpha + B = \frac{9}{P} = P - \frac{1}{P} = \frac{1}{P} \rightarrow a = 1$$

$$aB = -\frac{P}{P} \times P = \frac{b}{P} \rightarrow b = -9$$

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$$x'' + x - 1 - m^2 = 0$$

$$\alpha^2 + B^2 = (\alpha + B)^2 - 2\alpha B = 1 - 2(-1 - m^2) = 1 + 2 + 2m^2 \rightarrow \min = \boxed{3}$$

$$\text{if } m=0 \rightarrow x'' + x - 1 = 0 \rightarrow \Delta > 0 \quad \text{Q.Q.}$$

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