

نام و نام خانوادگی: ...
پاسخنامه تشریحی تکلیف شماره: ١٤ ...
پایه هفتم ریاضی

$$-x^2 + bx + 2$$

$$-\frac{\Delta}{4a} = V \Rightarrow \frac{\Delta}{4} = V \Rightarrow \Delta = 28$$

$$b^2 - 4ac = 28 \Rightarrow b^2 + 12 = 28 \Rightarrow b^2 = 16 \Rightarrow b = \pm 4$$

$$f(x) = x^2 + 2x + 2 \Rightarrow t^2 + 2t + 2 = 0$$

$$\Delta = -8 < 0 \Rightarrow \Delta = 4 - 12 < 0$$

جواب ندارد

$$f(x) = (x - \sqrt{5})^2 - 2(\sqrt{5} - x^2) - 15$$

$$t^2 - 2t - 15 = 0 \Rightarrow (t - 5)(t + 3)$$

$$\sqrt{5} - x^2 = 5 \Rightarrow x^2 = -1$$

$$\sqrt{5} - x^2 = -3 \Rightarrow x^2 = 7 \Rightarrow x = \pm \sqrt{7}$$

$$f(x) = x^2 - 14x + m = 0$$

$$-\frac{b}{a} = S = \alpha + \beta = 2\alpha + 2 = 4 \Rightarrow \alpha = 1, \beta = 3$$

$$P = \frac{c}{a} = \frac{m}{1} = \alpha\beta = 1 \times 3 \Rightarrow m = 3$$

$$f(x) = x^2 - 14x + 12 = 0$$

$$3x^2 - 4x + m - 1 = 0 \quad 2\alpha - \beta = -1$$

$$S = -\frac{b}{a} = 2 = 3\alpha - 1 \Rightarrow \alpha = 1, \beta = 0$$

$$P = \frac{c}{a} = \frac{m-1}{3} = \alpha\beta = 1 \times 0 \Rightarrow m = 1$$

$$-mx^2 + 4x + m^2 - 2 = 0$$

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

$$S = -\frac{b}{a} = \frac{4}{m} = \frac{1}{\alpha} + \alpha = \frac{\alpha + 1}{\alpha} = \frac{4}{m}$$

$$P = \frac{c}{a} = 1 = \frac{m^2 - 2}{-m} \Rightarrow m^2 + m - 2 = 0$$

$$(m+2)(m-1) = 0 \Rightarrow m = 1 \text{ or } m = -2$$

در ١٤ م راد معادله
برای حل کردن
جایگزینی میکنم

$$-2x^2 + 4x + 2 = 0 \Rightarrow \Delta > 0 \checkmark$$

$$-x^2 + 4x - 1 = 0 \Rightarrow \Delta > 0 \checkmark$$

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$$x^2 - mx + r = 0 \quad \alpha\beta r = f$$

$$p = \alpha\beta = \frac{c}{a} = r \quad (\alpha\beta)(\beta) = \alpha\beta^2 = f$$

$$\widetilde{r} \Rightarrow \boxed{\beta = \frac{f}{r}} \Rightarrow \boxed{\alpha = \frac{f}{r}} \quad (1, 1, 70)$$

$$S = \alpha + \beta = \frac{-b}{a} = \frac{m}{1} = \frac{14}{11} + \frac{17}{11} = \left(\frac{31}{11}\right) \quad x^2 - \frac{31}{11}x + r = 0 \quad \Delta > 0 \checkmark$$

$$\alpha^2 + \frac{1}{\alpha^2} \xrightarrow{\text{دو طرفه ضرب}} \left(\alpha + \frac{1}{\alpha}\right) \left(\alpha + \frac{1}{\alpha} - 2\right)$$

$$\left(\frac{\alpha^2 + 1}{\alpha}\right) \left(\left(\frac{\alpha^2 + 1}{\alpha}\right) - 2\right) \Rightarrow \left(\frac{\alpha^2 + 1}{\alpha}\right) \left(\frac{\alpha^2 + 1 - 2\alpha}{\alpha}\right) \Rightarrow \left(\frac{\alpha^2 + 1}{\alpha}\right) \left(\frac{\alpha^2 - 2\alpha + 1}{\alpha}\right)$$

$$x^2 - vx + r = 0 \Rightarrow \alpha^2 + \beta = v\alpha \quad v \times \left(\frac{31 - 9}{11}\right) = \boxed{101} \quad (1, 1, 70)$$

$$x^2 - fx + m = 0 \quad \beta = 3\alpha \quad S = f\alpha$$

$$S = f = f\alpha \Rightarrow \boxed{\alpha = 1} \quad \boxed{\beta = 3}$$

$$m = 3\alpha^2 = \boxed{3} \quad x^2 - 4x + 3 = 0 \quad \Delta > 0 \checkmark$$

$$h(t) = -10t^2 + 50t = -10(t^2 - 5t) \xrightarrow{t=0} t=5 \quad \text{حدالارتفاع}$$

$$\boxed{t = 5} \quad \text{برخورد با زمین: ریشی دوم مع}$$

$$S \mid \frac{-b}{2a} = \frac{-50}{-20} = 2,5 \quad \text{حدالارتفاع: عرض رأس}$$

$$(42, 5) \quad (92, 5) \quad (2)$$

$$(x-1)^2 = 2x+1 \quad x=0,1 \quad \text{دو برخورد} \quad \text{جواب}$$

$$x^2 + 2x = 12x + 2 \quad \text{دو برخورد} \quad \text{جواب}$$

$$x^2 + 2x - 12x - 2 = 0 \quad (12+2)(x+1)$$

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

$$x^2 - 4x = 0 \quad \boxed{x = 4}$$

$$x(2x - 4) = 0$$

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