

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

$$P = \frac{c}{a} = 1 \Rightarrow a \times b = c \Rightarrow b = \frac{c}{a} \Rightarrow b = \frac{1}{a}$$

$$\frac{a + b^2}{a b^2} = ? \Rightarrow \frac{a}{a b^2} + \frac{b^2}{a b^2} = \frac{1}{a} (a^2 + b^2) = \frac{1}{a} \times 90 = 19$$

$$\delta = -\frac{b}{a} = \frac{1}{1} = 1$$

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$$\delta^2 - 2sp = 1 - 2(1)(1) = -1$$

$$(-1, 1) \text{ و } (1, 1)$$

$$x = \frac{(-1 \pm \sqrt{1-1})}{-2} = \frac{-1 \pm 0}{-2} = \frac{-1}{-2} = \frac{1}{2}$$

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

$$x^2 + 2kx + a = 0$$

$$\Delta = \sqrt{4k^2 - 4a} = \frac{2}{k}$$

$$\left(\frac{\sqrt{4k^2 - 4a}}{1} = \frac{2}{k} \right) \Rightarrow 4k^2 - 4a = \frac{4}{k^2} \Rightarrow 4k^2 - 4a = \frac{4}{k^2} \Rightarrow 4k^2 - 4a = \frac{4}{k^2}$$

$$4k^2 = 4a + \frac{4}{k^2}$$

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

$$a^2 + b^2 = \delta^2 - 2p$$

$$-2 + 2 = -1 \Rightarrow \frac{-2+2}{1} = -1$$

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

$$\left[\frac{1}{k^2} \right] = \left[\frac{1}{k^2} \right] = \left[\frac{1}{k^2} \right]$$

$$\delta = -\frac{b}{a}, p = \frac{c}{a}$$

$$x_1 = (-1, 1)$$

$$y = a(x-h) + k \Rightarrow y = a(x+1) + 1$$

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

$$y = ax^2 + bx + c$$

$$a^2 + b^2 = \delta^2 - 2p = 0 \Rightarrow -2p = +1 \Rightarrow p = -\frac{1}{2} = \frac{c}{a} = \frac{a+1}{a} \Rightarrow -a = c + a \Rightarrow -c = 2a \Rightarrow a = -\frac{c}{2}$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-a \pm \sqrt{a^2 + 4a}}{2a}$$

$$b^2 - 4ac = a^2 + 4a$$

$$\frac{-a \pm \sqrt{a^2 + 4a}}{2a} < \frac{1}{2} \Rightarrow \frac{-a - \sqrt{a^2 + 4a}}{2a} < \frac{1}{2}$$

$$a - \sqrt{a^2 + 4a} < a$$

$$-\sqrt{a^2 + 4a} < 0$$

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$$a^2 + 4a < 0 \Rightarrow m < -\frac{4}{a}$$

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مخرج توابع منتهی به ∞ و $\min$ دارد و $\max$ ندارد

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$$p = \frac{c}{a} = \frac{r_0 d}{1} = \alpha \beta$$

$$\alpha \beta = \alpha^2$$

نتیجه گیری

$$\Rightarrow \alpha^2 = \alpha \Rightarrow \alpha(\alpha - 1) = 0 \Rightarrow \alpha = 1 \Rightarrow \boxed{u=1}$$

$$x^2 - \frac{v}{t} x - \omega = 0 \Rightarrow t^2 - vt - \omega = 0$$

$$\Delta = b^2 - 4ac = 49 + 4\omega = 49$$

$$t = \frac{-b \pm \sqrt{\Delta}}{2a}$$

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

نتیجه گیری: زیرا $\sqrt{49} = 7$

مقدار t و x

$$x = \frac{v + \sqrt{49}}{2} \Rightarrow x = \frac{v + 7}{2}$$

$$8 = + \sqrt{\frac{v + \sqrt{49}}{2}} - \sqrt{\frac{v + \sqrt{49}}{2}} = 0$$

$$p = -\sqrt{\frac{(v + \sqrt{49})(v + \sqrt{49})}{4}} = -\left(\frac{v + \sqrt{49}}{2}\right)$$

$$2p^2 - 38p + 75 = 2p^2 = 2 \times \left(\frac{v + \sqrt{49}}{2}\right)^2$$

چون p منفرات

$$2 \times \frac{(49 + 49 + 14\sqrt{49})}{4}$$

$$y = kx - 4 \Rightarrow x = -\frac{b}{a} = -\frac{9}{11k + 14\sqrt{49}} = \boxed{\frac{9}{59 + 14\sqrt{49}}}$$

$$y = -\frac{9}{k} - 4 \Rightarrow \left(-\frac{9}{k} \times \frac{1}{k}\right) - 4 = -\frac{9}{k^2} - 4 = -\frac{9}{k^2} - 4 = y$$

$$\Rightarrow -\frac{9}{k^2} - 4 = -4 \Rightarrow \frac{9}{k^2} = 0 \Rightarrow k = 3$$

$$-\frac{9}{k^2} - 4 = -4 \Rightarrow \boxed{-1}$$

$$y = -m - x \quad , \quad y = -mx^2 + mx + 1 \quad \Delta < 0 \Rightarrow \text{هیچ نقطه ای}$$

$$-mx^2 + mx + 1 = -m - x \Rightarrow -mx^2 + (m+1)x + 1+m = 0$$

$$\Delta < 0 \Rightarrow b^2 - 4ac < 0 \Rightarrow (m+1)^2 - 4(-m)(1+m) < 0$$

$$m^2 + 2m + 1 + 4m + 4m^2 = 5m^2 + 6m + 1 < 0 \Rightarrow 5m^2 + 6m + 1 < 0$$

$$(5m+1)(m+1) < 0$$

$$-\frac{1}{5} \quad -1$$

شماره های صحیح نمی شود.

$$\begin{array}{c|cc} & -1 & -\frac{1}{5} \\ \hline & + & - & + \\ & 0 & 0 & \end{array}$$

$(-1, -\frac{1}{5})$