

Subject:

بانی و تاسیس

Date:

۱۹/۵

نویسندگان

Sa Su Mo Tu We Th Fr

$$y = -x^2 + bx + 12$$

$$\max x \leq v$$

①

$$-\frac{\Delta}{4a} = \max x \Rightarrow \frac{-(b^2 - 4ac)}{4a} = v$$

②

$$\frac{-(b^2 - 4 \cdot 1 \cdot 12)}{4 \cdot 1} = v \rightarrow b^2 - 12 = 12 \rightarrow b^2 = 24$$

$$b = \pm \sqrt{24}$$

③

$$الف) P(x) = x^2 + 2x + 12$$

$$ب) P(x) = (x - 2)^2 - 2(x - 2) - 12$$

$$الف) x^2 \leq t \Rightarrow t^2 + 2t + 12 = 0$$

④

$$\Delta = 4 - 48 < 0 \Rightarrow \text{فصلی است}$$

$$ب) x^2 \leq t \Rightarrow t^2 - 2t - 12 = 0$$

$$(t - 6)(t + 2) = 0$$

$$x^2 \leq 6$$

$$t \leq 6$$

$$-x^2 = 1 \rightarrow \text{غیرممکن}$$

$$t \leq -2$$

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

$$12m^2 - 14m + m = 0$$

$$\alpha, \alpha + \gamma$$

(3)

$$m = ?$$

$$\alpha, \beta = ?$$

(1, 10)

$$\alpha + \alpha + \gamma = 8 \rightarrow 8 = \frac{-b}{a} = \frac{14}{\varepsilon} = \varepsilon$$

$$\gamma\alpha + \gamma = \gamma \Rightarrow \alpha = \textcircled{1}, \alpha + \gamma = \textcircled{10} \rightarrow \text{60}$$

$$m = \frac{\alpha\beta}{\gamma} = \frac{c}{\varepsilon} \Rightarrow c = m = \underline{10} \quad \begin{matrix} 12m^2 - 14m + m = 0 \\ \Delta > 0 \end{matrix}$$

$$12m^2 - 4m + m - 1$$

$$m = ?$$

(4)

$$\gamma\alpha - \beta = \gamma$$

$$8 = \frac{-b}{a} = \frac{4}{\gamma} = \gamma$$

$$\gamma\alpha - \beta = \gamma$$

$$\alpha + \beta = 8\gamma$$

$$\gamma\alpha = 4 \rightarrow \alpha = 2, \beta = 0$$

$$\frac{m-1}{\gamma} = \alpha\beta$$

$$\rightarrow m = 1$$

$$12m^2 - 4m = 0 \quad \Delta > 0$$

(1, 10)

$$-m\alpha^2 + \alpha m + m^2 - \alpha = 0$$

$$\alpha, \frac{1}{\alpha}$$

⑤

$$m = ??$$

$$\alpha + \frac{1}{\alpha} = 8$$

$$\frac{m^2 - \alpha}{-m} = 1$$

$$\alpha \times \frac{1}{\alpha} = \rho \rightarrow \rho = 1$$

$$m^2 + m - \alpha = 0$$

$$(m+1)$$

$$(m+1)$$

$$(m-1) = 0 \Rightarrow m = 1, -2$$

$$\rightarrow -m^2 + \alpha m - 1 = 0$$

$$\Delta > 0 \checkmark \checkmark$$

$$+ \alpha m^2 + \alpha m + \alpha = 0$$

$$\rightarrow \alpha \alpha \alpha \alpha \alpha \rightarrow \text{مقسوم}$$

$$\alpha, \beta = ??$$

$$m^2 - m\alpha + \alpha = 0$$

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

⑥

$$\alpha \beta = \alpha$$

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

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

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

$$\alpha = \frac{9}{\alpha}$$

1, 10

$$\frac{-(m)}{1} = 8 \Rightarrow \frac{\alpha}{\alpha} + \frac{9}{\alpha} = m \Rightarrow m = \frac{\alpha^2}{1\alpha}$$

$$\alpha^2 - \frac{\alpha^2}{1\alpha} + \alpha = 0 \checkmark$$

$$\alpha^2 - \alpha m + m = 0$$

$$\alpha, \alpha$$

$$m = ?? \quad \text{⑦}$$

$$\alpha + \alpha = \frac{-b}{a} = 8 \Rightarrow \alpha = 1$$

1, 10

$$\rightarrow 1, 10 \rightarrow \frac{m}{1} = 1 \times 1 = 1$$

$$\alpha^2 - \alpha m + m = 0 \checkmark$$

$$n^P - \sqrt{n} + P = 0$$

$$x^P + \frac{1}{x^P} = ?$$

①

$$x^P + P = \sqrt{x}$$

$$(a+b)^P \leq a^P + b^P + Pab(a+b)$$

5

$$\rightarrow \left(x + \frac{P}{x}\right)^P \leq x^P + \frac{1}{x} + P\left(x + \frac{P}{x}\right) \rightarrow x^P + \frac{1}{x^P} =$$

$$\left(x + \frac{P}{x}\right)^P - P\left(x + \frac{P}{x}\right) = \sqrt{P} - \varepsilon \quad \forall \varepsilon > 0$$

$$x + \frac{P}{x}, \frac{x^P + P}{x}, \frac{\sqrt{x}}{x} \leq \sqrt{P}$$

ارتفاع

$$h(t) = -1.2t^2 + 0.2t$$

②

ارتفاع max

$$\frac{-b}{2a} = \frac{-0.2}{-2.4} = 0.083 = \frac{0.2}{2.4}$$

$$\text{ارتفاع} = -1.2(t-0.083)^2 + 0.083$$

1

$$\Rightarrow -1.2\left(\frac{0.2}{2.4}\right) + 0.083 \times \frac{0.2}{2.4} = \frac{-0.2}{2.4} + 0.083$$

$$\frac{11.8 \cdot 1.2}{2.4} = \frac{14.16}{2.4} = 5.9$$

$$\text{الف) } (n-1)^P = Pn + 1$$

ریشه هفتم

③

$$a^P + P - Pn = Pn + P \Rightarrow a^P - Pn \leq 0 \quad a(n-\varepsilon) \leq 0$$

 $\varepsilon \rightarrow 0$

$$\text{ب) } a^P + Pn \leq |n+P|$$

0

$$1) a^P + Pn = n + P \rightarrow n^P + n - P = 0$$

$$(n+P)$$

$$(n-1) = 0 \rightarrow \underbrace{+1}_{\text{و}} \underbrace{-P}_{\text{و}}$$



$$(2) \quad x^2 + y^2 = 1 \quad (x+y)$$

$$x^2 + y^2 = -x - y$$

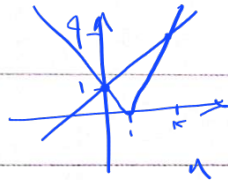
$$x^2 + y^2 + x + y = 0$$

$$(x+\frac{1}{2})^2 + (y+\frac{1}{2})^2 = 0 \rightarrow \text{C.C.E.}$$

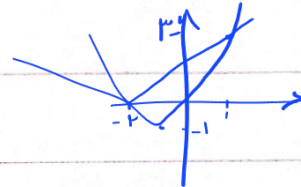
$$1 - 2 = 1 - 2 \checkmark \checkmark$$

$$x - x = y - y \checkmark \checkmark$$

$$\Rightarrow \text{C.C.E.}$$



$$x = 0, y$$



$$x = -1, y$$