

۷ جمادی الثانی

SAT 31 DEC

شنبه
تاریخ: ۱۴۰۲/۱۲/۳۱

$$y_{max} = \frac{-D}{Fa} = v \rightarrow \frac{-(b^2 + 12)}{-2} = v \rightarrow b^2 + 12 = 21 \rightarrow b^2 = 9$$
$$\boxed{b = \pm 3}$$

الف) $f(x) = x^2 + 2x + 3$

$$t = x^2 \rightarrow t^2 + 2t + 3 = 0 \rightarrow D = b^2 - 4ac$$
$$4 - 12 = -8 < 0$$

ریشه‌ها حقیقی ندارند

$$\text{ب) } f(x) = (4 - x^2)^2 - 2(4 - x^2) - 12$$
$$t = 4 - x^2 \rightarrow t^2 - 2t - 12 = 0 \rightarrow (t - 2)(t + 4) = 0$$
$$t = 2 \rightarrow 4 - x^2 = 2 \rightarrow x^2 = 2 \rightarrow x = \pm \sqrt{2}$$
$$t = -4 \rightarrow 4 - x^2 = -4 \rightarrow x^2 = 8 \rightarrow \boxed{x = \pm 2\sqrt{2}}$$

$$S = \frac{-b}{a} \rightarrow 2 + 2 + 2 = \frac{12}{2} \rightarrow 2\alpha + 2 = 6 \rightarrow \alpha = 2$$
$$p = \frac{c}{a} \rightarrow \frac{m}{2} = 12 \rightarrow \boxed{m = 24}$$
$$\begin{array}{|l} \alpha = 2 \\ \beta = 3 \end{array}$$

$$\rightarrow 4x^2 - 12x + 12 = 0$$
$$D > 0 \checkmark$$

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SUN 1 JAN

$$r\alpha - \beta = \varepsilon \rightarrow r\alpha + r\beta - r\beta = \varepsilon \quad -r$$

$$r(\alpha + \beta) + r\beta = \varepsilon$$

$$\varepsilon - r\beta = \varepsilon \rightarrow \beta = 0$$

$$\alpha + \beta = r \rightarrow \alpha = r$$

$$p = \frac{c}{a} = \frac{m-1}{r} = 0 \rightarrow m-1 = 0 \rightarrow \boxed{m=1}$$

$$rx^r - 9x = 0 \quad \Delta \checkmark \cdot \checkmark$$

$$p=1 \rightarrow \frac{c}{a} = 1 \quad \frac{m^r-1}{-m} = 1 \rightarrow m^r+m-1=0 \quad -d$$

$$(m+r)(m-1)=0$$

$$\boxed{m=1} \rightarrow -x^r + \varepsilon x - 1 = 0 \rightarrow \Delta \checkmark \rightarrow 1x-1 \rightarrow 1x \checkmark$$

$$m=-r \rightarrow rx^r + \varepsilon x + r = 0 \rightarrow \Delta = 0 \quad x \quad 1x-1x=0 \quad \checkmark$$

$$p = \alpha\beta = \frac{c}{a} = r \quad -f$$

$$\alpha\beta^r = r \rightarrow \alpha\beta \times \beta = \varepsilon \rightarrow r\beta = \varepsilon \rightarrow \beta = \frac{r}{r}$$

$$\alpha + \frac{\varepsilon}{r} = r \rightarrow \alpha = \frac{r}{\frac{\varepsilon}{r}} = \frac{r}{\varepsilon}$$

$$s = \alpha + \beta = -\frac{b}{a} \quad \frac{r}{r} + \frac{r}{\varepsilon} = m \rightarrow \boxed{m = \frac{\varepsilon r}{1r}} \quad \text{آغاز سال ۲۰۲۳ میلادی}$$

$$x^r - \frac{\varepsilon r}{1r}x + r \rightarrow \Delta \checkmark \cdot \checkmark$$

-v

$$B = \mu_d - \mu$$

$$m = n$$

$$x^2 - 2x + 2 \rightarrow 10$$

$$\alpha^r - V\alpha + r = 0 \quad \rightarrow \quad \alpha^r + r = V\alpha$$

$$\begin{aligned} (\alpha)^r + \left(\frac{r}{\alpha}\right)^r &= (\alpha + \frac{r}{\alpha}) \left(\alpha^r + \frac{r}{\alpha^r} - r\right) \Rightarrow \alpha + \frac{r}{\alpha} = \frac{\alpha^r + r}{r} \\ &= \frac{r\alpha}{\alpha} = r \end{aligned}$$

$$\alpha^r + \frac{\varepsilon}{\alpha^r} = \frac{\alpha^r + \varepsilon}{\alpha^r} =, \frac{(\alpha^r + \varepsilon)^r - \varepsilon \alpha^r}{\alpha^r} =, \frac{(\alpha^r + \varepsilon)^r}{\alpha^r} - \frac{\varepsilon \alpha^r}{\alpha^r}$$

$$= \Sigma q - \Sigma = \Sigma x \quad \left(\alpha + \frac{p}{\alpha} \right) \left(\alpha + \frac{\Sigma}{\alpha r} - r \right) = \sqrt{\left(\Sigma \right) \left(r \right)} \quad \text{r.o.1}$$

$$\text{mat} \leftarrow \text{join}(\text{mat}, \text{a})$$

$$x_s = -\frac{b}{r_a} = \frac{-80}{-r_i} = \frac{8}{r}$$

$$-1 \cdot t^r + 0 \cdot t = 0$$

$$t(-1, t+\delta) = -$$

$$y_s = -1.0 \left(\frac{r}{\epsilon} \right) + 0.0 \left(\frac{\partial}{r} \right) = 41.8$$

$$\boxed{t = 0.5}$$

زوال کے توپ زمین سے فرد میں

۱۰ جمادی الثانی

TUE 3 JAN

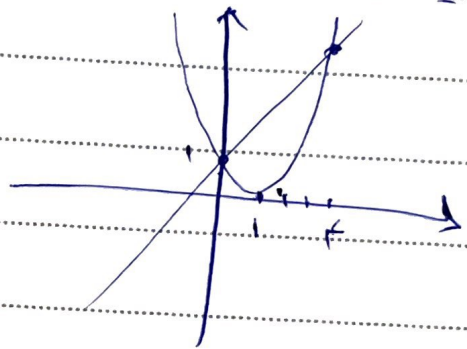
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$$(x-1)^2 = 2x+1 \quad \text{الف}$$

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

$$x^2 - 4x = 0$$

$$x(x-4) = 0 \rightarrow \boxed{x = 0, 4} \quad \text{۲ جواب دارد}$$



$$x^2 + 2x = |x+2| \quad \text{ب}$$

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

$$x^2 + x - 2 = 0 \rightarrow \boxed{x = -2, 1} \quad \text{۲ جواب دارد}$$

