

← صيغة مختصرة

$$y = -x^2 + bx + c \quad \left\{ \begin{array}{l} \Delta = b^2 - 4ac \\ x = \frac{-b \pm \sqrt{\Delta}}{2a} \end{array} \right. \rightarrow \frac{b^2 + 12 = 17 \rightarrow$$

← 1

$$b^2 + 12 = 17 \rightarrow b^2 = 5$$

$$\rightarrow b = \pm \sqrt{5}$$

$f(x) = x^2 + 2x + 3 \rightarrow$ این معادله هیچ جوابی ندارد ← $\Delta < 0$
 $x^2 + 2x, x^2 + 2x + 3$ و $x^2 + 2x + 3$ هر دو معادله هستند
 هیچ جوابی ندارد ← $\Delta < 0$

$$f(x) = (x - x^2)^2 - 2(x - x^2) - 10$$

← $\Delta < 0$

$$x - x^2 = 0 \rightarrow x^2 - x - 10 = 0 \Rightarrow (x - 5)(x + 2) = 0$$

$\omega \leftarrow x^2$

$$x - x^2 = \omega \rightarrow -x^2 = 1 \rightarrow x^2 = -1 \quad \times$$

$$x - x^2 = \omega \rightarrow -x^2 = -1 \rightarrow x^2 = 1 \rightarrow x = \pm 1$$

$$\left. \begin{aligned} & \kappa n^r - 14n + m_{20} \\ & \alpha \geq \beta + \gamma \\ & m, \alpha, \beta \geq ? \end{aligned} \right\} \rightarrow \begin{aligned} & \alpha + \beta \geq \frac{-14}{\kappa} \geq \kappa \\ & \gamma \beta + \gamma \geq \kappa \rightarrow \gamma \beta \geq \gamma \rightarrow \beta \geq 1, \alpha \geq \kappa \end{aligned}$$

$$\alpha \beta \geq \frac{m}{\kappa} \rightarrow \kappa \geq \frac{m}{\kappa} \rightarrow m \geq \kappa$$

$$\gamma \alpha - \beta \geq \kappa \rightarrow \beta \geq \gamma \alpha - \kappa$$

$$\alpha + \beta \geq \gamma \rightarrow \gamma \alpha - \kappa \geq \gamma \rightarrow \gamma \alpha \geq 2\gamma \rightarrow \alpha \geq 2, \beta \geq 0$$

$$\gamma x_0 \geq 0 \geq \frac{m-1}{\kappa} \rightarrow m-1 \geq 0 \rightarrow m \geq 1$$

$$\alpha \times \beta \geq 1 \geq \frac{m^r - \gamma}{-m} \rightarrow$$

$$-m \geq m^r - \gamma \rightarrow m^r + m - \gamma \geq 0 \rightarrow (m + \gamma)(m - 1) \geq 0$$

$$-\gamma \rightarrow \kappa n^r + \kappa n + \gamma \geq 0 \rightarrow$$

$$\Delta_{214} - \kappa \times \kappa \times \kappa < 0 \quad \times$$

$$1 \rightarrow -n^r + \kappa n - 1 \geq 0 \rightarrow \Delta_{214} - \kappa \geq 1 \quad \checkmark$$

$$\rightarrow m \geq 1$$

$$n^r - m n + v_2 0$$

$$\alpha \beta_2 \kappa \xrightarrow{\mu} \alpha \beta \alpha \beta_2 \kappa \rightarrow \beta_2 \kappa / \mu, \alpha_2 9 / \kappa$$

← 9

$$\alpha + \beta_2 \kappa / \mu + 9 / \kappa = m \rightarrow \frac{19 + 14}{14} = m \rightarrow m = \frac{33}{14}$$

$$\alpha_2 \mu \beta \rightarrow \alpha + \beta_2 \kappa \rightarrow \kappa \beta_2 \kappa \rightarrow \beta_2 1$$

← v

$$\alpha_2 \mu$$

$$\alpha \beta_2 \mu_2 \frac{m}{1} \rightarrow m_2 \mu$$

$$n^r - v n + v_2 0 \rightarrow \alpha \beta_2 \kappa \rightarrow \beta_2 \frac{v}{\alpha}, \alpha + \beta_2 v$$

$$\alpha^u + \frac{1}{\alpha^u} = \left(\alpha + \frac{v}{\alpha} \right)^u - \mu \times v \left(\alpha + \frac{v}{\alpha} \right)$$

← 1

$$\rightarrow v^u - \kappa \kappa_2 \mu \kappa \mu - \kappa \kappa_2 \mu_0 1$$

↖ 9

$$h = -\frac{1}{2} \omega^2 + \omega \phi \rightarrow t_{max} = \frac{-\omega \phi}{-\omega} = \frac{\omega}{\omega} \rightarrow$$

$$\rightarrow h_{max} = -\frac{1}{2} \omega^2 + \frac{\omega^2}{\omega} \Rightarrow$$

$$h_{max} = \frac{\omega^2}{2}$$

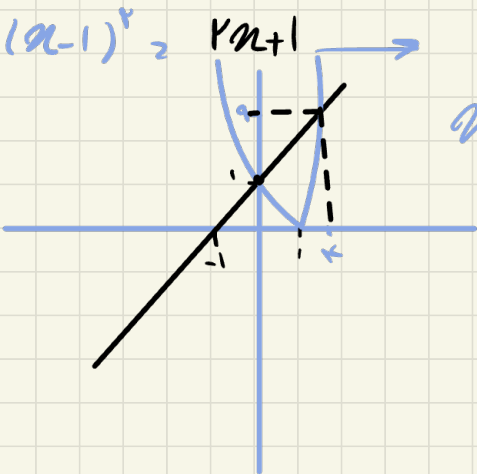
↖ 10

↖ 11

$$h_{20} \rightarrow \frac{1}{2} \omega^2 - \omega t \rightarrow t_{20} \times$$

$$t = \omega \checkmark$$

↖ 12



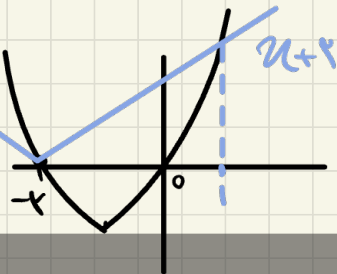
↖ 13

$$x^* + \gamma x_2$$

$$x_2 = -\gamma, 1$$

$$|x + \gamma|$$

$$-x - \gamma$$



$\leftarrow \gamma \in \mathbb{R}$