

(19)

← صيغة مختصرة

$$y = -x^2 + bx + c \quad \left\{ \rightarrow \Delta = b^2 - 4ac \right. \rightarrow \frac{b^2 + 4c}{4} = v \rightarrow$$

$(-\frac{b}{2a}, v)$

← 1
5

$$b^2 + 4c = 4v \rightarrow b^2 = 4v$$

$$\rightarrow b = \pm 2\sqrt{v}$$

$f(x) = x^2 + px + q \rightarrow$ این معادله مربع کامل می شود
 $x^2 + px, x^2 + px + \frac{p^2}{4} \rightarrow$ دو طرف معادله را با $\frac{p^2}{4}$ جمع می دهیم
 $x^2 + px + \frac{p^2}{4} = -q + \frac{p^2}{4} \rightarrow (x + \frac{p}{2})^2 = \frac{p^2 - 4q}{4}$

5

$$f(x) = (x - \alpha)^2 - \gamma(\alpha - \alpha^2) - \omega$$

← 2 ← 2

$$x - \alpha^2 = 0 \rightarrow x^2 - 2x - \omega = 0 \Rightarrow (x - \omega)(x + \gamma) = 0$$

$\omega \leftarrow \quad \quad \quad \leftarrow \gamma$

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

$$x - \alpha^2 = \gamma \rightarrow -x^2 = -v \rightarrow x = \pm \sqrt{v}$$

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

$\leftarrow \omega$
(1, 0)

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

$\kappa n^r - 14n + \kappa = 0 \checkmark$

$$\begin{aligned} & \gamma \alpha - \beta \geq \kappa \rightarrow \beta \geq \gamma \alpha - \kappa \\ & \alpha + \beta \geq \gamma \rightarrow \gamma \alpha - \kappa \geq \gamma \rightarrow \gamma \alpha \geq \gamma + \kappa \rightarrow \alpha \geq \gamma + \kappa \\ & \gamma \times 0 \geq 0 \geq \frac{m-1}{\omega} \rightarrow m-1 \geq 0 \rightarrow m \geq 1 \end{aligned}$$

$\leftarrow \kappa$
(1, 0)
 $\kappa n^r - 14n = 0 \checkmark$

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

$\leftarrow \omega$

$$\begin{aligned} -m \geq m^r - \gamma & \rightarrow m^r + m - \gamma \geq 0 \rightarrow (m + \gamma)(m - 1) \geq 0 \\ \gamma \rightarrow \kappa n^r + \kappa n + \gamma \geq 0 & \quad \begin{matrix} \downarrow & \downarrow \\ -\gamma & 1 \end{matrix} \end{aligned}$$

$$\Delta \geq 14 - \kappa \times \kappa \times \kappa < 0 \quad \times$$

(5)

$$1 \rightarrow -n^r + \kappa n - 1 \geq 0 \rightarrow \Delta \geq 14 - \kappa \geq 14 \checkmark$$

$\rightarrow m \geq 1$

↖ 9

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

$$\rightarrow h_{max} = -\frac{1}{2} \left(\frac{\omega \phi}{\frac{1}{2}} \right)^2 + \omega \phi \Rightarrow$$

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

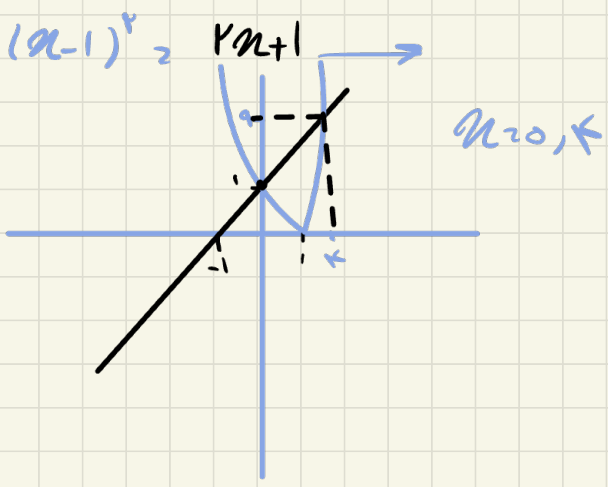
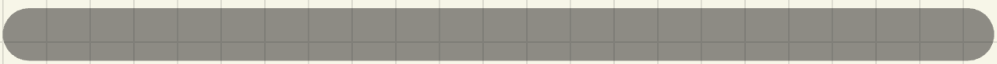
← h_{max}

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منه ω $\rightarrow h_{20} \rightarrow \frac{1}{2} (\omega - t)_{20} \rightarrow t_{20} \times$

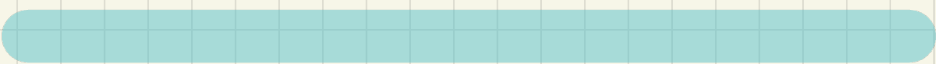
$$t = \omega \checkmark$$

منه ω $\rightarrow$



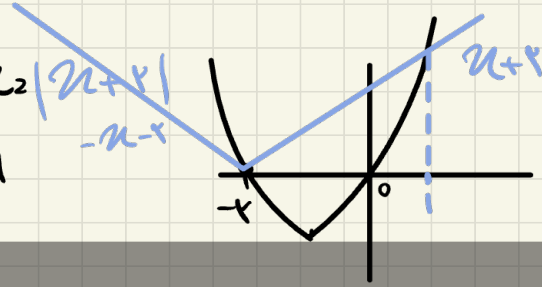
← x_{20} ← 6

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$$n^x + y n_2 \mid n+y$$

$$n = -4, 1$$



← 2210