

بجواب سوال

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$$x = \frac{-y + \sqrt{y^2 - 4a}}{2}$$

$$\frac{-y - \sqrt{y^2 - 4a}}{2}$$

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

$$-y - \sqrt{y^2 - 4a}$$

$$N \left(-y - \sqrt{y^2 - 4a} \right)^p$$

$$+ y \left(-y + \sqrt{y^2 - 4a} \right)^p$$

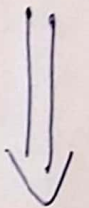
$$= y \sqrt{y^2 - 4a} + y^2 - 2ay$$

$$= 12a + 12\sqrt{p}$$

$$11 + \dots - a + \sqrt{y^2 - 4a}$$

$$\dots$$

$$11 - a - 4\sqrt{y^2 - 4a}$$

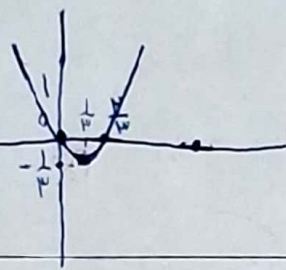


$$a = 1$$

2

$$y = m^m - m = m(m-1)$$

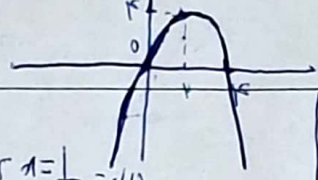
$y=0$ در $m=0$ و $m=1$
 ext $\begin{cases} m=0 \\ m=1 \end{cases}$
 $y = m \times \frac{1}{m} - \frac{1}{m} = -\frac{1}{m}$
 $\min y = -\frac{1}{m}$



ناقصی سوم

$$y = -m^m + m = m(m-1)$$

$y=0$ در $m=0$ و $m=1$
 ext $\begin{cases} m=0 \\ m=1 \end{cases}$
 $y = -m + m = 0$
 $\max y = 1 - m + m = 1$
 $\min y = -m + m = 0$

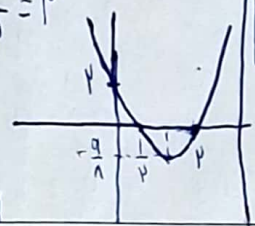


از ناقصی دوم

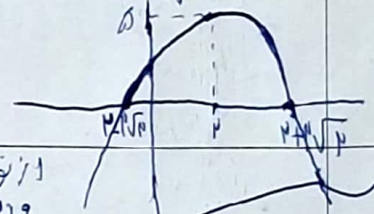
$$y = m^m - m + 1$$

$y=0$ در $m=1$ و $m=2$
 $m=1$ و $m=2$

ext $\begin{cases} m=1 \\ m=2 \end{cases}$
 $y = \frac{1}{1} - \frac{1}{1} + 1 = 1$
 $y = \frac{4}{2} - \frac{1}{2} + 1 = 2.5$



$-m^m + m + 1 = y$
 $m^m - m - 1 = 0$
 $\max y = \frac{1}{2} - \frac{1}{2} + 1 = 1$
 $\min y = -\frac{1}{2} + \frac{1}{2} + 1 = 1$



از نواحی اول و دوم و چهارم

از نواحی اول و دوم و سوم و چهارم

$$m^m - m - m = 0 \quad S = -\frac{b}{a} = 1 \quad p = -m$$

$$\frac{\alpha + \beta}{\alpha - \beta} = \frac{1}{\pm \frac{\sqrt{13}}{13}} = \pm \frac{13}{\sqrt{13}} = \pm \sqrt{13}$$

$$\alpha^m + \beta^m = S^m - m p = 1 + 1 = 2$$

$$\alpha^m + \beta^m = S^m - m S p = 1 + 9 = 10$$

$$\alpha^m - \beta^m = (\alpha - \beta)(\alpha^{m-1} + \alpha^{m-2}\beta + \dots + \beta^{m-1})$$

$$= \pm \sqrt{13} (1 + 13) = \pm 14\sqrt{13}$$

یا باید Δ عبارت دوم معنی باشد

یا صفر باشد و این معنی بدست می آید که قطع کند با همان ریشه m (معانی باشد)

$$\alpha^m - m \alpha \leq 0$$

$$m(m-1) \leq 0 \Rightarrow 0 \leq m \leq 1$$

$$m^m - m - \alpha = 0 \Rightarrow \alpha, \beta$$

$$S = m \quad p = -\frac{\alpha}{m}$$

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

$$m\alpha^m - m\alpha = \alpha \Rightarrow \alpha^m - \alpha = \frac{\alpha}{m}$$

$$\alpha^m + \beta^m + \alpha^m = S^m - m p$$

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

$$\Rightarrow -\alpha = \alpha$$

Handwritten scribbles and additional equations at the bottom of the page.

$(V - \mu\alpha, \alpha - \mu)$ $\alpha = \mu$ $(\mu\alpha + \mu, \alpha - \mu)$
 عرض برابر/بزرگتر است
 و به صورت تقارن همی مقابله کنند

$\Rightarrow \frac{V - \mu\alpha + \mu\alpha + \mu}{\mu} = b \rightarrow$ معادله
 $\frac{V - \mu\alpha + \mu\alpha + \mu}{\mu} = b \rightarrow$ معادله
 $S(\alpha, \mu)$

$\alpha m^N + b'm + c = y$ $\alpha m^N - \alpha m - b = 0$ $S = 1$ $p\beta = -\frac{b}{a}$
 $m=0$ $\alpha^N + b' + c = 1$ $m^N - m - \frac{b}{a} = 0$ $\rightarrow m^N - m + 1 = 0$
 $\beta - \alpha\alpha' + c = 1$ $14\alpha' = -\mu$ $\alpha' = -\frac{1}{\mu}$ $\Rightarrow c = -\frac{1}{\mu}$
 $\mu\alpha\alpha' - c = -\mu$

$\mu\alpha B^N + \mu\alpha\alpha^N - \mu\alpha B = 1V$ $\alpha m^N - \alpha m - b = 0$ $S = 1$ $p\beta = -\frac{b}{a}$
 $\mu B^N + \alpha^N - B = 0$ $m^N - m - \frac{b}{a} = 0$ $\rightarrow m^N - m + 1 = 0$
 $B^N - B = \frac{b}{a}$

$S^N - \mu p + \frac{b}{a} = 1 + \frac{\mu b}{a} = 0$ $\frac{b}{a} = -\mu$ $\Delta = \frac{b^2}{a^2} = \frac{\mu^2}{1} = \mu^2$
 $\sqrt{\Delta} = \frac{\mu}{1} = \mu$

$m^N + \mu m + \alpha = 0$ $p = \alpha$ $S = -\mu$ $\alpha^N + \mu\alpha = -\alpha$
 $\mu\alpha^N + \mu\beta^N = 1\mu\sqrt{\mu} + 1\alpha$ $\mu\alpha^N + \mu\beta^N = -\mu\alpha$

$\mu(S^N - \mu p) + \alpha^N = 1\mu\sqrt{\mu} + 1\alpha$ $\alpha^N = 1\mu + 1\mu\sqrt{\mu}$
 $\mu(S^N - \mu p) + \alpha^N = 1\mu\sqrt{\mu} + 1\alpha$ $\alpha^N = 1\mu + 1\mu\sqrt{\mu}$

$(-\alpha, B)$ $(1, B)$ عرض برابر/بزرگتر است
 $\frac{1-\alpha}{\mu} = -\frac{\mu}{\mu}$ معادله
 $\frac{-b}{\mu a} = -\mu$
 $b = \mu a$
 $\alpha m^N + \mu\alpha m + \beta \frac{\mu}{\mu} = y$ $m = -\mu$ $y = -\frac{1}{\mu}$ $\mu\alpha - 1\mu + 1, \alpha = -\alpha$
 $\alpha \frac{1}{\mu} m^N + \mu m + \frac{\mu}{\mu} = y$ $m = 1$ $\frac{1}{\mu} + \mu + \frac{\mu}{\mu} = \mu$ $\mu\alpha = \mu \alpha = \frac{1}{\mu}$

$\frac{1}{\sqrt{\alpha}} + \frac{1}{\sqrt{\beta}} = \frac{\sqrt{\beta} + \sqrt{\alpha}}{\sqrt{\mu}} = \alpha$ $\alpha\sqrt{\mu} = \sqrt{\alpha} + \sqrt{\beta}$
 $\mu\alpha p = \mu S + \mu\sqrt{\mu}$

$-m^N + \mu m + \mu = 0$ $S = \frac{m + \mu}{\mu y}$ $p = \frac{1}{\mu y}$ $\frac{\mu\alpha}{\mu y} = \frac{m + \mu + \mu}{\mu y}$ $m = -1$