Subject . ماکزیمم و مینیمم Year. Month. Day.

الف) $ext\left|\frac{-b}{2a}, \frac{\Delta}{4a}\right.$ $\quad y=x^2-4x+1$

$a>0$ ↑ min دارد

ب) $ext\left|\frac{-b}{2a}, \frac{-\Delta}{4a}\right.$ $\quad \frac{-(16-4)}{-8}=\frac{+32}{-8}=-4$ ماکزیمم دارد

الف) $ext\left|\frac{-b}{2a}, \frac{6}{2}=3\right.$ $\quad 9-18+1=-8$

$x=0 \Rightarrow y=1$ $\quad$ ریشه‌ها $x=\frac{6\pm\sqrt{32}}{2}$

$x=3 \Rightarrow y=1$ $\quad 0<\frac{6-\sqrt{32}}{2}<1$

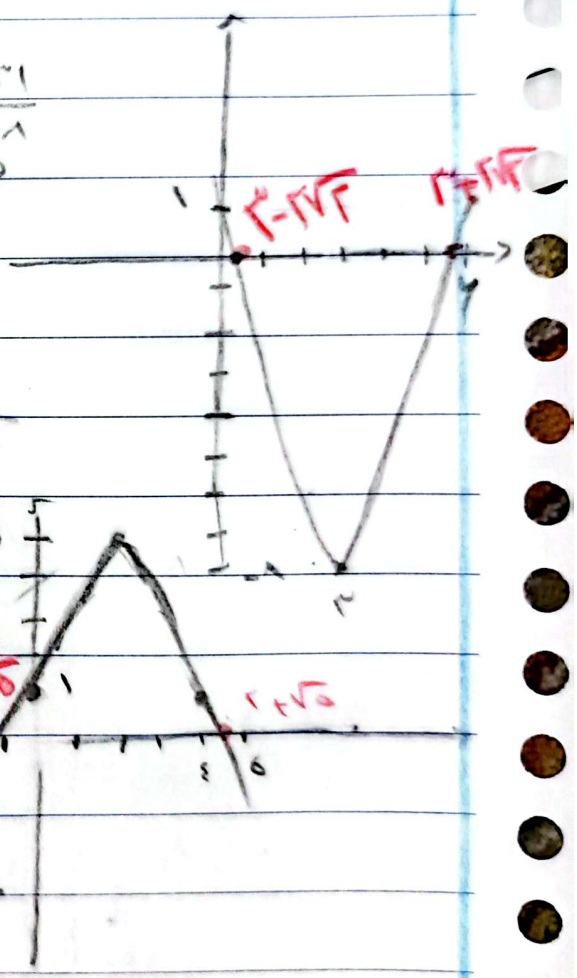
ب) $ext\left|\frac{-b}{2a}, \frac{-\Delta}{-4}, 2\right.$ $\quad y=-4+8+1=5$

ماکزیمم دارد

$x=0 \Rightarrow y=1$ $\quad$ ریشه‌ها $x=\frac{-4\pm\sqrt{16+4}}{-2}$

$x=4 \Rightarrow y=1$

$-1<\frac{-4+\sqrt{16+4}}{-2}<0$



ARSH

Subject . Year. Month. Day.

$(x-\alpha)^2(x-\beta)=$ ۴-

$(x^2+\alpha^2-2\alpha x)(x-\beta)=x^3-\beta x^2+\alpha^2 x-\beta\alpha^2-2\alpha x^2+2\alpha\beta x=x^3+(-\beta-2\alpha)x^2-(\alpha^2+2\alpha\beta)x-\beta\alpha^2$

$k=4(-\beta-4-\alpha)=4\times\frac{-2}{4}=-2$

$-4\beta\alpha^2=-2$

$\beta\alpha^2=\pm\frac{1}{2}$

$\beta\alpha(\alpha)=\frac{1}{2}$ $\alpha=\frac{1}{-4}$

$(\sqrt{\alpha}-\sqrt{\beta})^2=(1)^2$ $(\sqrt{\alpha}-\sqrt{\beta})^2=1$ $\alpha+\beta-2\sqrt{\alpha\beta}=1$ ۴-

$3m-2\sqrt{m}=1$

$\alpha\beta=\frac{c}{a}=\frac{m}{1}=m$ $3m-2\sqrt{m}-1=0$

$\alpha+\beta=\frac{-b}{a}=\frac{3m}{1}=3m$ $m-2\sqrt{m}-3=0$

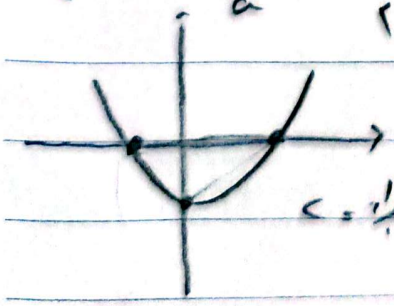
$(\sqrt{m}-3)(\sqrt{m}+1)=0$

$\sqrt{m}=\frac{-1}{2}$ غ ق ق

$\sqrt{m}=\frac{3}{2}$, ۱ ق ق ✓ $m=1$

$2x^2-x-1=0$

$\alpha\beta=\frac{c}{a}=\frac{-1}{2}$



$\frac{|\alpha-\beta|}{2}<\frac{3}{4}$ $(m+2)^2-8m>0$ ۵-

$|\alpha-\beta|<\frac{6}{4}$ صفر کوچک $(m-2)^2>0$

$\frac{\sqrt{\Delta}}{|a|}=\frac{3}{4}$ $m=$ عرض راس >0

$\frac{\sqrt{\Delta}}{|a|}<\frac{3}{2}$ $\sqrt{(m+2)^2-4(2m)}<3|a|$ $|m-2|<3|m|$

$m<0$ $m^2-4m-4<9m^2$ $m<-1$ $m>\frac{1}{2}$

$8m^2+4m+4>0$ $(m-3)(m+1)>0$

$\Delta=16-128<0$ $m=-1$, $m=\frac{3}{4}$

جواب نهایی $m<-1$ یا $m>\frac{3}{4}$

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$y = x^2 + 2x + 1$ ext $\left| x = \frac{-b}{2a} = \frac{-1}{2} \right\}$ .0

$y = x^2 - 2x + 1$ ext $\left| \frac{2}{2} \right.$

a) . b min ext $\left| y = \frac{-\Delta}{4a} = -\frac{(4 - 4a^2)}{4a} = \frac{4}{8} \right.$ .4

$\frac{4a^2 - 4}{4a} = \frac{4}{8}$ $32a^2 - 16a = 16a \rightarrow \frac{1}{4} \times 32a^2 = 16a - 16$ ..

$a = \frac{-4}{8} \pm \frac{14}{8}$ ✓

$8a^2 - 8a = 16$ $a^2 - 8a = 16 \times 8$ $(a+4)(a-14)$ .7

$x_1, x_1 + 2 \rightarrow x_1(x_1)(x_1+2) = \frac{5}{a}$, $a = 2x^2 + 4x \rightarrow x^2 + 2x = 2x + a$

$x^2 = 1$ $x = -1$ ✓

$\alpha + \beta = 2x + 2$, $\frac{a+1}{1} = \frac{-b}{a}$

$a = 2x + 1$

$a = 2$

$(y)(y+2) = b$ $y + y + 2 = 2a + 1 = 10$ $y + 1 = 5$ $y = 4$

$(4)(6) = 24$

$24 - 3 = 21$ ✓

ext $\left| \frac{-b}{2a} = \frac{-a}{-2a} = \frac{1}{2} \right\} \rightarrow y = -a \times \frac{1}{4} + \frac{a}{2} + 2 = \frac{a}{4} + 2$ .8

$\frac{a}{4} + 2 = 2$ $b \times \frac{1}{2}$ $-\frac{b}{2} = 1$ $\frac{a}{4} + 2 = -1$ $\frac{a}{4} = -3$ $a = -12$

ext $\left| \frac{-b}{2a} = \frac{b}{4b} = \frac{1}{4} \right)$ $y = 2b \times \frac{1}{16} - b \times \frac{1}{4} = -1 = \frac{-b}{8} - 1$

$-\frac{b}{8} - 1 = 1$ $2 \times \frac{1}{16} - 12 \times \frac{1}{4} + 2 = \frac{2}{4} - 3 + 2 = -\frac{1}{4}$

ARSH $\frac{-b}{8} - 1 = -\frac{1}{4}$ $\frac{-b}{8} = \frac{4}{4}$ $\rightarrow b = -4$ $b + a = -4 + 12 = 8$ ✓

subject:

Year Mont. Day ( )

$\alpha\beta = \frac{\beta}{25\alpha}$ $\alpha = \frac{1}{10\alpha}$ $25\alpha^2 = 1$ $\alpha = \pm\frac{1}{5}$ -7

$\alpha = \frac{1}{5}$ $\alpha = \alpha$ $25\alpha\frac{1}{5^2} + \frac{4}{5} + \beta = 0$ $1 + \beta = 0$ $\beta = -1$

$\beta < \alpha$ غیق

$\alpha = -\frac{1}{5}$ $\alpha = \alpha$ $25\alpha\frac{1}{25} - \frac{4}{5} + \beta = 0$ $-1 + \beta = 0$

$\beta = 1$

$\alpha < \beta$ ✓

$ext\left|\frac{-b}{2a} = \frac{-4}{5\cdot\alpha} = \frac{-4}{5\cdot\alpha} = \frac{-4}{-10} = \frac{4}{10}\right.$

$y = -\frac{\Delta}{4a} = -\frac{(14 - 100\alpha\beta)}{100\alpha} = +$

ناصیه اول

$ab = a + b - 1 = \frac{4}{a}$ 10

$ab + 1 = a^2 + b^2 - 12$ $a + \beta = a^2 + b^2 - 12$

$a^2 + b^2 + 2ab - 2ab = 13$

$(a+b)^2 - 2ab = 13$ $(a+b)^2 - 2(a+b) + 3 - 13 = 0$

$(a+b)^2 - 2(a+b) - 10 = 0$

$(a+b-5)(a+b+2) = 0$

$a+b = 5$ $a+b = -2$