

Subject : _____

Date: _____

پرونیان باقری / تالیف شماره ۲۳ / کلاس دوم دختر A

$$\frac{-b}{2a} = -1 \quad a-b+c=9 \quad 9a+4b+c=1 \quad |1$$

$$2a \rightarrow 2a=b \Rightarrow c-a=9 \quad 10a+c=1 \quad 10a=-1$$

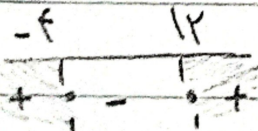
$$\Rightarrow a = -\frac{1}{10}, c = \frac{11}{10}, b = -1 \rightarrow y = -\frac{1}{10}x^2 - x + \frac{11}{10}$$

$$\Delta > 0 \rightarrow m^2 - 1(m+4) > 0 \rightarrow (m-1)(m+4) > 0$$

$$S > 0 \rightarrow \frac{-m}{4} > 0 \rightarrow m < 0$$

$$P > 0 \rightarrow \frac{m+4}{4} > 0 \rightarrow m > -4$$

$$\Rightarrow -4 < m < -1$$



$$\Delta > 0 \rightarrow fm^2 - fm + 1 - 2f + 4m > 0 \rightarrow fm^2 + 4m - 2f + 1 > 0$$

$$\alpha + \beta = \frac{1}{\alpha\beta} \rightarrow \frac{1-2m}{4} = \frac{3}{4-m} \rightarrow fm^2 - 10m - 1f = 0$$

$$(4m-5)(4m+2) = 0$$

$$m = \frac{5}{4}, -1$$

$$4f + 2(1-2f)$$

$$f - 1 - 2f < 0$$

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$$x'' - x = f \Rightarrow x_1 + x_2 = 1, x_1 x_2 = -f$$

$$\underbrace{x_1'' + \frac{1}{x_2}}_{\substack{(x_1 + x_2)'' \\ x_1 x_2}} + \underbrace{x_2'' + \frac{1}{x_1}}_{\substack{(x_1 + x_2)'' \\ x_1 x_2}} = 1'' - \frac{1}{f} = \frac{\Delta 1}{f} = \frac{-b}{a}$$

$$(x_1 + x_2)'' = \frac{(x_1 + x_2)'}{x_1 x_2} = \frac{-1}{f}$$

$$-x_1 x_2 (x_1 + x_2)' = 1$$

$$\left(x_2'' + \frac{1}{x_1}\right)\left(x_1'' + \frac{1}{x_2}\right) = x_1'' x_2'' + \underbrace{x_1''}_{\substack{(x_1 + x_2)'' \\ x_1 x_2}} + x_2'' + \frac{1}{x_1 x_2} = 4f + 9 - \frac{1}{f} = \frac{-221}{f}$$

$$(x_1 + x_2)'' - 2x_1 x_2 = 9$$

$$\Rightarrow y = f x'' - \Delta 1 x - 221$$

$$x'' = 1 \cdot \sqrt{f} \cdot \sqrt{f} \cdot 1 \cdot \sqrt{f}$$

$$x \sqrt[3]{x} + 1 : \sqrt[3]{x^2} - \sqrt[3]{x^2} - \frac{1}{\sqrt[3]{x^2}} - 1 = r \sqrt[3]{x}$$

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$$(x-r) \sqrt[3]{x} = \frac{1}{\sqrt[3]{x^2}} \leadsto x(x-r) = 1 \leadsto x^2 - rx - 1 = 0$$

$$x_1 + x_2 = r$$

$$\beta, \sqrt[3]{\beta} \leadsto \sqrt[3]{\beta} = \frac{a}{\sqrt[3]{\beta}}, \sqrt[3]{\beta}^2 = \frac{r}{\sqrt[3]{\beta}} \leadsto \beta = \pm \frac{r}{\sqrt[3]{\beta}}$$

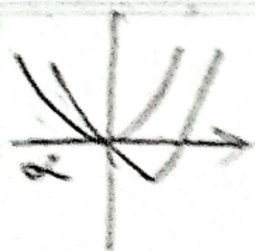
4

$$\frac{\pm 1}{\sqrt[3]{\beta}} = \frac{a}{\sqrt[3]{\beta}} \leadsto a = \pm 1$$

اختلاف
ریشه ها $\leadsto |1 - (-1)| = 2$

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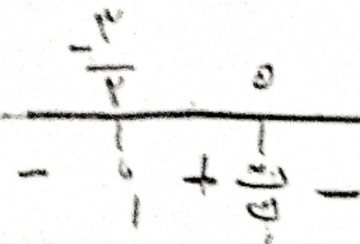


$$a > 0$$

V

$$s > 0 \rightarrow \frac{-r^2 - ra}{a} > 0$$

$$p = 0$$



← به بالای صفر است

and $\frac{1}{r} \leftarrow$

$$\left. \begin{aligned} x &= -a \\ x' &= \frac{y}{-1} = -r \end{aligned} \right\} x = x' \Rightarrow \boxed{a = r}$$

1

$$y=1 \rightarrow 1 = x^r + rx - r \rightarrow x^r + rx - r = 0 \rightarrow (x^r + r)(x-1) = 0$$

$$-x^r - rx + b = 1 \quad x = -r, 1$$

$$x=1 \rightarrow -1 - r + b = 1 \rightarrow \boxed{b = r}$$

$$x=-r \rightarrow -r - r + b = 1 \rightarrow b = r$$

$$y_{\text{new}} = t \rightarrow rat^r + at - y = 0 \rightarrow r(t + \frac{1}{r})^r - a(t + \frac{1}{r}) + b = 0$$

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$$r(t^r + rt + \frac{1}{r} - at - \frac{a}{r} + b = 0$$

$$rt^r + r(1-a)t + \frac{1-a}{r} + b = rat^r + at - y = 0$$

$$ra = r \rightarrow a = 1, b = -y$$

$$\boxed{\frac{ab}{r}} = \boxed{-r}$$

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$$x^2 + 4x - 5m = x^2 + 4x + m \leadsto x = -m$$

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$$m^2 - 4m + m = 0 \leadsto m^2 = 3m \leadsto m = 3$$

$$x^2 + 4x - 12 = 0 \leadsto (x + 6)(x - 2) = 0 \quad x = 2, -6$$

$$x^2 + 4x + 5 = 0 \leadsto (x + 5)(x + 1) = 0 \leadsto x = -5, -1$$

$$3 - (-1) = 4$$