نام و نام خانوادگی ..... پاسخنامه تشریحی تکلیف شماره ۲۳ کلاس ..... A .....

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$$\begin{cases} \frac{-b}{2a} = -1 \rightsquigarrow -b = -2a \rightsquigarrow b = 2a \\ a - b + c = 9 \xrightarrow{*} a - 2a + c = 9 \rightsquigarrow -a + c = 9 \\ 9a + 3b + c = 1 \xrightarrow{*} 9a + 6a + c = 1 \rightsquigarrow 15a + c = 1 \end{cases}$$

$$a - c = -9 \rightsquigarrow -18a = 9 \rightarrow a = \frac{-1}{2}$$

$$c = 8.5 \;,\; b = -1$$

$$-0.5x^2 - x + 8.5 = y$$

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$$\Delta > 0 \rightsquigarrow m^2 - 8m - 48 > 0$$

	$-\infty$		-4		12		$+\infty$
		+	۰	−	۰	+	

$$\rightsquigarrow m \in (-\infty, -4) \cup (12, +\infty)$$

$$\frac{c}{a} > 0 \rightsquigarrow \frac{m+4}{2} > 0 \rightsquigarrow m + 4 > 0 \rightsquigarrow m > -4$$

$$\frac{-b}{a} > 0 \rightsquigarrow \frac{-m}{2} > 0 \rightsquigarrow -m > 0 \rightsquigarrow m < 0$$

اشتراک = $m \in (-4, -4)$

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$$\frac{-b}{a} = \frac{a}{c} \rightsquigarrow \frac{-2m+1}{3} = \frac{3}{2-m}$$

$$9 = 2m^2 - 5m + 2 \rightsquigarrow 2m^2 - 5m - 7 = 0 \qquad \Delta = 81$$

$$m = \frac{5 \pm 9}{4} = 3.5 \;,\; -1 \rightsquigarrow m = 3.5 \;,\; \cancel{-1} \rightarrow m = 3.5$$

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$$x^2 - x - 12 = 0 \longrightarrow S = 1 \;,\; P = -12$$

معادله مورد نظر: $x^2 - \frac{81}{4}x - \frac{221}{4}$

$$x_1^3 + \frac{1}{x_1} + x_2^3 + \frac{1}{x_2} \Rightarrow S^3 - 3SP + \frac{S}{P} \Rightarrow 1 + 12 - \frac{1}{4} = \frac{81}{4} \Rightarrow \text{مورد نظر}$$

$$P = x_1 x_2 + \frac{x_1^3}{x_1} + \frac{x_2^3}{x_2} + \frac{1}{x_1 x_2} \Rightarrow (P)^3 + \frac{x_1^2 + x_2^2}{S^2 - 2P} + \frac{1}{P} \Rightarrow -64 + 1 + 8 + \frac{1}{-4} = \frac{-221}{4}$$

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۸+۱۱ω

$x^2 - \frac{a}{2}x + \frac{c}{p} = 0$

$S \quad P$

$\frac{\alpha}{\beta} \times \frac{q}{p} = \frac{c}{p} \rightsquigarrow \frac{a^2}{64} = \frac{c}{p} \rightsquigarrow$

1	$\frac{q}{11}$
3	$\frac{a}{c}$
2	$\frac{a}{3^2}$

$a \neq \pm 8$

$3a^2 = 192 \rightsquigarrow a^2 = 64$

اشتراک ۱۱ω

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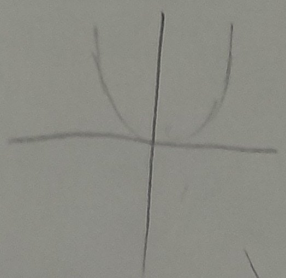

$\min \rightsquigarrow a > 0$

$S < 0$

$\frac{-3^2 - 2a}{a} < 0 \rightsquigarrow$

$-$	$\nexists$	$+$	$\dot{0}$
			$-$

$P > 0 \rightsquigarrow \frac{c}{a} = \frac{0}{2} > 0$

$a \in (-\infty, -\frac{3}{2}]$

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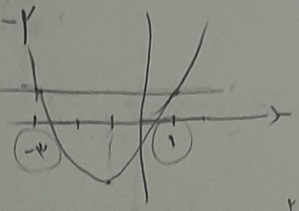
$\begin{cases} \frac{-b}{2a} = \frac{2}{-2} = -1 \\ \frac{-b}{2a} = \frac{-a}{2} = \frac{-1}{1} \rightsquigarrow -a = -2 \checkmark \end{cases}$

$a = 2 \checkmark$

$x^2 + 2x - 2$

$\begin{cases} -1 \\ -3 \end{cases}$



$x^2 + 3x - 2 = 1$

$x^2 + 3x - 3 = 0$

$x = -3$

$x = 1$

$y = -x^2 - 2x + b \Rightarrow 1 = -9 + 6 + b$

$1 = -1 - 2 + b$

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$2x^2 - ax + b = 0$

$\begin{cases} \alpha + 0.5 \\ \beta + 0.5 \end{cases}$

$2ax^2 + ax - 4 = 0 \rightsquigarrow \begin{cases} 2x^2 - x + b = 0 \\ 2x^2 + x - 4 = 0 \end{cases}$

$\alpha \quad \beta$

$(\alpha + 0.5)(\beta + 0.5) = 0.25 + \frac{1}{2} - 4$

$b = -2.5$

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$\bullet \quad \frac{a}{2} = \frac{-\alpha}{2a} + 1 \rightsquigarrow \frac{a}{2} = \frac{1}{2} \rightsquigarrow a = 1$

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$\left\{ \frac{-0.5 \times 1}{2} \right\} = -1$

$x^2 + 2x - 2m = x^2 + 4x + m$

$2x = -2m$

$x = -m \rightsquigarrow m^2 - 2m - 3m = m^2 + 4m + 3 = 0$

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