

ساینا داو دی تکلیف ۲۵ دم دختر B

<p>الف) $y = -x^2 + 4x$</p> <p>ب) $y = 3x^2 - 2x$</p> <p>$y = -x(x-4) \rightarrow x=0, x=4$</p> <p>$a = -1 \rightarrow a < 0 \rightarrow$ max منی</p> <p>پرسی نواحی: $\sqrt{-4} \quad \sqrt{-1} \quad \underline{x=2}$</p> <p>سهمی از ناحیه دوم نمی گذرد</p>	<p>الف) $y = 3x^2 - 2x$</p> <p>ب) $y = x(3x-2) \rightarrow x=0, x=\frac{2}{3}$</p> <p>$a = 3 \rightarrow a > 0 \rightarrow$ min منی</p> <p>پرسی نواحی: $\sqrt{-4} \quad \sqrt{-1} \quad \underline{x=\frac{2}{3}}$</p> <p>سهمی از ناحیه سوم نمی گذرد</p>
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<p>الف) $y = -x^2 + 4x - 1$</p> <p>ب) $y = 2x^2 - 5x + 2$</p> <p>$\Delta = 14 - 4 = 10 > 0$</p> <p>$x_1 = 2, y_1 = 3 > 0$</p> <p>از ناحیه های ۱ و ۳ می گذرد.</p>	<p>الف) $y = 2x^2 - 5x + 2$</p> <p>ب) $\Delta = 25 - 14 = 9 > 0 \rightarrow x = 2, x = \frac{1}{2}$</p> <p>$x_1 = \frac{-b}{2a} = \frac{5}{4}, y_1 < 0$</p> <p>از ناحیه ۱ و ۳ می گذرد.</p>
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<p>الف) $\alpha^2 + \beta^2$</p> <p>ب) $(\alpha + \beta)^2 - 2\alpha\beta = (\frac{-b}{a})^2 - \frac{2c}{a}$</p> <p>$(1)^2 - 2(-3) = 1 + 6 = \boxed{7}$</p>	<p>الف) $\alpha^2 - \alpha - 3 = 0$</p> <p>ب) $\frac{\alpha + \beta}{\alpha - \beta}$</p> <p>$\alpha + \beta = \frac{-b}{a} = 1 \rightarrow \frac{\alpha + \beta}{\alpha - \beta} = \frac{1}{\frac{\sqrt{\Delta}}{ a }} = \frac{1}{\sqrt{13}}$</p> <p>$\alpha - \beta = \frac{\sqrt{\Delta}}{ a } = \sqrt{13}$</p>
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<p>الف) $\alpha^3 - \beta^3$</p> <p>ب) $(\alpha - \beta)(\alpha^2 + \alpha\beta + \beta^2)$</p> <p>$(\frac{\alpha - \beta}{\frac{\sqrt{\Delta}}{ a }}) (\frac{\alpha^2 + \beta^2}{\frac{c}{a}}) =$</p> <p>$\sqrt{13} (7 - 3) = \boxed{4\sqrt{13}}$</p>	<p>الف) $\alpha^3 + \beta^3$</p> <p>ب) $(\alpha + \beta)^3 - 3\alpha\beta(\alpha + \beta)$</p> <p>$(\frac{-b}{a})^3 - \frac{3c}{a}(\frac{-b}{a}) = (1)^3 - 3(-3)(1)$</p> <p>$1 + 9 = \boxed{10}$</p>
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$$y = (x-2)(x^2 - ax + a)$$

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$$\Delta = 0 \quad a^2 - \varepsilon a = 0$$

$$a = 0, \varepsilon$$

$$3x^2 - 12x - a = 0$$

$$1a^2 + \beta^2 - \varepsilon a = V$$

سوال ۱۲ - ۳

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$$\alpha + \beta = \frac{-b}{a} = \varepsilon \quad \beta > \alpha \rightarrow \alpha = 1, \beta = 3$$

$$\frac{a}{\beta} = \frac{-9}{3} = -3$$

$$\alpha\beta = \frac{c}{a} = \frac{-a}{3} \rightarrow (1)(3) = 3 \rightarrow \frac{-a}{3} = 3 \rightarrow a = -9$$

$$A(b, b-2)$$

$$x_2 = \frac{x_1 + x_3}{2}$$

$$b = \frac{2a + 3 + V - 2a}{2} = \frac{3 + V}{2}$$

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$$A(2a+3, a-2)$$

$$B(V-2a, a-2)$$

میانگین عرض (میانگین طول)

$$|b-2| = 6$$

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

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$$\varepsilon \alpha \beta^2 + 2 \alpha \alpha^2 - 2 \alpha \beta = 1V \rightarrow 2 \alpha (\alpha \beta^2 + \alpha^2 - \beta) = 1V$$

$$\alpha - \beta = \frac{\sqrt{\Delta}}{|a|} = \frac{\sqrt{a^2 - \varepsilon ab}}{a}$$

$$(-a, \beta)$$

$$(1, \beta)$$

$$\rightarrow x = \frac{1-a}{2} = -2$$

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$$A(x, \frac{1}{2})$$

$$\rightarrow \text{if } x=0 \rightarrow y = \frac{1}{2}$$

$$y_2 = \beta + \frac{1}{2} \rightarrow \frac{-1}{2} = \beta + \frac{1}{2} \rightarrow \beta = -1$$

$$x^2 + 4x + a = 0$$

$$\alpha + \beta = -4 \rightarrow \alpha = -3 - \sqrt{3}, \beta = -3 + \sqrt{3}$$

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$$a < \beta < 0$$

$$3\alpha^2 + 2\beta^2 = 12\sqrt{3} + 11a$$

$$\frac{c}{a} a = (-3 - \sqrt{3})(-3 + \sqrt{3}) = 9 - 3 = 6$$

$$a = 4$$

$$34x^2 - (m+1\varepsilon)x + 1 = 0$$

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$$\sqrt{\frac{1}{a}} + \sqrt{\frac{1}{\beta}} = \Delta$$

$$\rightarrow \frac{\alpha + \beta}{\alpha\beta} = 2\Delta$$

$$m+1\varepsilon = 2\Delta \rightarrow m = 11$$

$$m\alpha^2 + 12x + 1 = 0$$

$$\alpha + \beta = \frac{m+1\varepsilon}{34}$$

$$\alpha\beta = \frac{1}{34} \rightarrow \frac{m+1\varepsilon}{\frac{34}{1}} = m+1\varepsilon = 2\Delta$$