

نام و نام خانوادگی باسختنامه تشریحی تکلیف شماره کلاس
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الف) $x^2 - 4x + 1 = 0 \rightarrow x^2 - 4x + 4 = (x-2)^2$
 $(x-2)^2 = 1 \rightarrow x-2 = \pm 1 \rightarrow x-2=1 \rightarrow x=3$
 $x-2=-1 \rightarrow x=1$

ب) $x^2 + 14x + 49 = 0 \rightarrow x^2 + 14x + 49 = (x+7)^2$
 $(x+7)^2 = 0 \rightarrow x+7 = 0 \rightarrow x = -7$

۱۱۵

الف) $x^2 - 6x + 9 = 0 \rightarrow (x-3)(x-3) = 0 \rightarrow x=3$

ب) $x^2 - 8x - 15 = 0 \rightarrow (x+3)(x-15) = 0 \rightarrow x=15$
 $x=-3$

الف) $x^2 - 3x - 4 = 0 \rightarrow x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \rightarrow x = \frac{3 \pm \sqrt{9 + 16}}{2} = \frac{3 \pm 5}{2}$

ب) $2x^2 - 5x + \frac{1}{2} = 0$
 $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \rightarrow \frac{5 \pm \sqrt{25 - 2}}{4} = \frac{5 \pm \sqrt{23}}{4}$

الف) $x^2 - 3x + 2 = 0$
 $a+b+c=0 \rightarrow 1+3+2=0 \rightarrow x=1$
 $1+3+2=0 \rightarrow x = \frac{c}{a} = 2$

ب) $x^2 + x - 3 = 0$
 $a+c=b \rightarrow 1-3=1 \rightarrow x=-1$
 $1-3=1 \rightarrow x = -\frac{c}{a} = \frac{3}{1}$

الف) $5x^2 - 12x + 7 = 0 \rightarrow x^2 - 12x + 35 = 0 \rightarrow (x-5)(x-7) = 0$
 $x=5$
 $x=7$

ب) $3x^2 - 10x + 7 = 0 \rightarrow x^2 - 10x + 21 = 0 \rightarrow (x-7)(x-3) = 0$
 $x=7$
 $x=3$

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

$$\frac{1 + \sqrt{1 - 16}}{2} \quad \frac{1 - \sqrt{1 - 16}}{2}$$
 ناتو حقیقی

$$\frac{-a + \sqrt{a^2 - 1}}{-4} \quad \frac{-a - \sqrt{a^2 - 1}}{-4}$$

$$y_{2x}^2 - x + 1 = 0 \quad (5)$$

$$\frac{1 + \sqrt{1 - 1x}}{\varepsilon} \sim \frac{1 - \sqrt{1 - 1x}}{\varepsilon} \quad \text{بقدر 2 حقيق}$$

$$\frac{F + \sqrt{14-14}}{5} = 1 \quad F = \frac{\sqrt{14-14}}{5} = 1$$

$$\Delta = 0 \quad \begin{aligned} 9 - 1a &= 0 \\ a &= \frac{9}{1} \end{aligned}$$

$$b^2 - 4ac = 0 \quad \begin{aligned} b &= 4ac \\ 9 &= 4 \times 1 \times \left(\frac{1}{a}\right) \end{aligned}$$

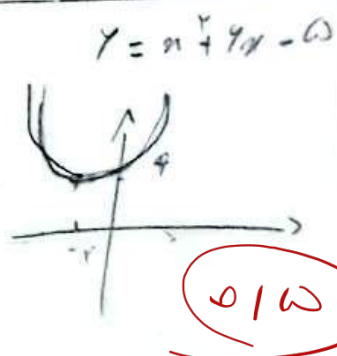
(ب) $\Delta > 0$ $[1 - \infty)$ $\gamma a - \gamma a + a = 0$
 $b - fac > 0$ $\gamma - \gamma a > 0$ (الف)
 $\gamma - \gamma a > 0$ $\gamma > a$

$$\Delta \geq 0 \quad 9 - 10a \gamma_1 \rightarrow \frac{9}{10} \gamma_1$$

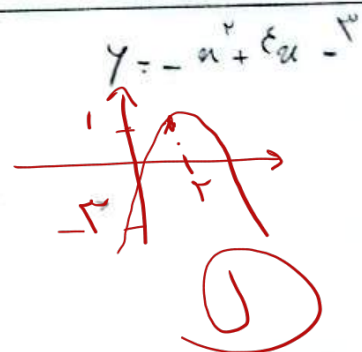
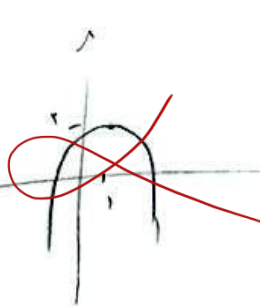
$$\Delta \leq 0 \quad 9 - 4ac \leq 0 \quad \frac{9}{4} \leq ac \quad (2)$$

$$\mu_{in} \left| \begin{aligned} \frac{-b}{r_a} &= \frac{-\epsilon}{\epsilon} = -\eta \\ \frac{-\Delta}{\epsilon a} &= \frac{-(D^r - \epsilon a c)}{\epsilon} = \frac{1\eta + r_a}{\epsilon} = 1 - \epsilon \end{aligned} \right|$$

$$S = 1 - \epsilon$$



$$\begin{aligned} \max \quad & \left| \frac{-b}{a} = \frac{-\varepsilon}{-p} = \psi \quad \checkmark \right. \\ & \left. \frac{-\Delta}{\varepsilon a} = \frac{-(14-14)}{-\varepsilon} = \psi \quad \checkmark \right. \\ & -\psi + \varepsilon \psi - \psi = \psi \quad \psi = 1 \\ & \psi = \psi \end{aligned}$$



$$S = \frac{-b}{a} = \frac{-1}{1} = -1$$

$$P = \frac{c}{a} = \frac{-1}{1} = -1$$

$$\text{or } \frac{y}{x} - \frac{y}{x} = 0$$