

نام و نام خانوادگی: فرهاد فروزنده پاسخنامه تشریحی تکلیف شماره ۱۴ ... کلاس: یازدهم تجربی B

$$y^2 - 9x + 6y + 5$$

$$\text{max} \left| \frac{-b}{\frac{ra}{fa}} \right| \rightarrow -\frac{b^2 + 12}{-4} \geq 7 \Rightarrow b^2 + 12 \geq 28$$

$$\Rightarrow b^2 \geq 16 \Rightarrow b \geq \pm 4 \quad \checkmark$$

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$$f(x) = x^4 + 2x^3 + 3x^2 \xrightarrow{x^2 = t} t^2 + 2t + 3 \rightarrow \Delta < 0 \rightarrow \text{خواه نه دار} \quad \checkmark$$

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$$b) f(x) = (t - x^2)^2 - 2(t - x^2) - 10 \xrightarrow{(t - x^2) = T} T^2 - 2T - 10$$

$$= (T - 5)(T + 2) \begin{cases} -x^2 - 1 \geq 0 \Rightarrow x^2 \leq -1 \text{ غلط} \\ -x^2 + 7 \geq 0 \Rightarrow x^2 \leq 7 \Rightarrow x \in [-\sqrt{7}, \sqrt{7}] \end{cases} \quad \checkmark$$

$$t x^2 - 14x + m = 0$$

$$\hookrightarrow S = x_1 + x_2 = x_1 + (x_1 + 2) = 2 \Rightarrow \begin{cases} x_1 = 1 \\ x_2 = 3 \end{cases} \quad \checkmark$$

$$P = \frac{m}{f} = x_1 x_2 \Rightarrow \frac{m}{f} = 3 \Rightarrow m = 3f \quad \checkmark$$

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$$2x^2 - 9x + m - 1 = 0 \rightarrow S = \frac{b}{a} = 2$$

$$\hookrightarrow 2a - B = f \rightarrow 2a + 2B - 2B = f$$

$$\Rightarrow f - 2B = f \Rightarrow B = 0, \alpha = 2$$

$$\Rightarrow m - 1 = 0 \Rightarrow m = 1 \quad \checkmark$$

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$$-mx^2 + fx + m^2 - 2 = 0 \Rightarrow B = \frac{1}{\alpha}$$

$$P = \alpha \times \frac{1}{\alpha} = 1 \Rightarrow \frac{m^2 - 2}{-m} = 1 \Rightarrow m^2 - 2 + m = 0 \Rightarrow \begin{cases} m = -2 \\ m = 1 \end{cases}$$

$$m = -2 \rightarrow 2x^2 + fx + 2 = 2(x^2 + \frac{f}{2}x + 1) = 2(x+1)^2 \rightarrow x = -1$$

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$$(m=1) \rightarrow -x^2 + fx - 1 = 0 \rightarrow \Delta > 0 \rightarrow \text{دو ریشه متمایز} \quad \checkmark$$

$$\begin{aligned}
 q^r - m + r = 0 &\rightarrow \alpha B = r \Rightarrow \alpha B^r = r \Rightarrow (\alpha B) / B = r \\
 &\Rightarrow r B = r \Rightarrow B = \frac{r}{r} \rightarrow \frac{19}{9} = \frac{r}{r} m + r = 0 \\
 &\Rightarrow \frac{19 + 2V}{9} = \frac{r}{r} m \rightarrow m = \frac{r}{19} \checkmark
 \end{aligned}$$

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$$\begin{aligned}
 q^r - f + m = 0 &\rightarrow S = \alpha + B = r \Rightarrow \alpha = 1 \\
 &\rightarrow 1 - f + m = 0 \Rightarrow m = f \checkmark
 \end{aligned}$$

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$$\begin{aligned}
 q^r - V + r = 0 &\rightarrow P = \alpha B = r \rightarrow \alpha = \frac{r}{B} \Rightarrow \alpha^r = \frac{A}{B^r} \\
 \alpha^r + \frac{A}{\alpha^r} &= \alpha + B = r - rSP = r \checkmark
 \end{aligned}$$

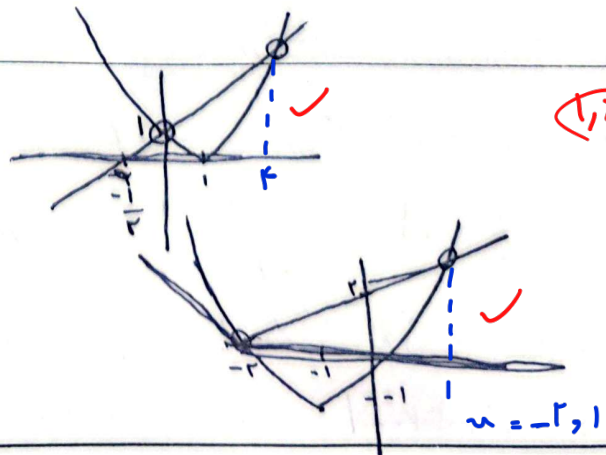
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$$\begin{aligned}
 h(t) = -l \cdot t^r + d \cdot t &\rightarrow h = 0 \rightarrow -l \cdot t^r + d \cdot t = 0 \Rightarrow -l \cdot t(t - d) \\
 &\rightarrow t = 0, t = d \checkmark \text{ (نقطه شروع و پایان)} \\
 y_{\max} = \frac{-\Delta}{4a} &= -\frac{12\Delta}{r} + 15d = \frac{15d}{r} \checkmark \rightarrow h_{\max}
 \end{aligned}$$

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$$\begin{aligned}
 \text{الف) } (n-1)^r &= 2n+1 \rightarrow \\
 &\quad \text{نقطه } n=0, f
 \end{aligned}$$

$$\begin{aligned}
 q^r + r &= |q + r| \\
 &\quad \text{نقطه } n=2
 \end{aligned}$$



(1,2)