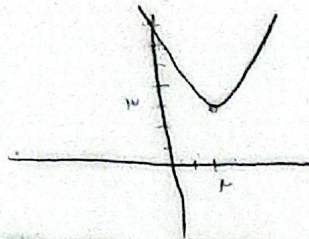


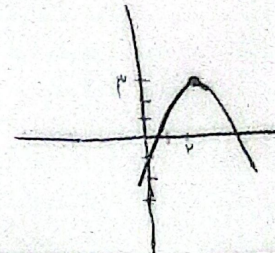
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نام و نام خانوادگی: پاسنامه تشریحی تکلیف شماره کلاس: رشته: B

الف) $y = x^2 - 2m + 1$ $a > 0 \rightarrow \min$
 $\min \left| \begin{array}{l} -\frac{b}{2a} \rightarrow \frac{2}{2} = 1 \\ \frac{c}{a} \rightarrow \frac{1}{1} = 1 \end{array} \right.$



ب) $y = -x^2 + 2m - 1$ $a < 0 \rightarrow \max$
 $\max \left| \begin{array}{l} -\frac{b}{2a} \rightarrow \frac{2}{-2} = -1 \\ \frac{c}{a} \rightarrow \frac{-1}{-1} = 1 \end{array} \right.$



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$2x^2 + (m+1)x + \frac{1}{2}m + 2 = 0$

الف) $\Delta > 0 \rightarrow \Delta = b^2 - 4ac \rightarrow m^2 + 2m + 1 - 2m - 4 > 0 \rightarrow m^2 - 2m - 3 > 0 \rightarrow (m-3)(m+1) > 0$
 $\frac{-1}{+} \frac{3}{-} \rightarrow m > 3 \text{ یا } m < -1$ الف

ب) $\Delta = 0 \rightarrow m = 3 \text{ یا } -1$

ج) $\Delta < 0 \rightarrow -1 < m < 3$

د) $\Delta \geq 0 \rightarrow m \geq 3 \text{ یا } m \leq -1$

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$y = (m-2)x^2 - x(m+1)x + 1$ $a \neq 0 \rightarrow m-2 \neq 0 \rightarrow m \neq 2$

الف) $P > 0 \rightarrow \frac{c}{a} > 0 \rightarrow \frac{1}{m-2} > 0 \rightarrow m > 2$ ①

$S < 0 \rightarrow -\frac{b}{a} < 0 \rightarrow \frac{1}{m-2} < 0 \rightarrow m < 2$ ②

$\Delta > 0 \rightarrow 1 - 4(m-2)(m+1) > 0 \rightarrow 1 - 4(m^2 - m - 2) > 0 \rightarrow 1 - 4m^2 + 4m + 8 > 0 \rightarrow -4m^2 + 4m + 9 > 0$

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

① ② ③ $\rightarrow m < -1$ جواب: ③

ب) $P < 0 \rightarrow \frac{c}{a} < 0 \rightarrow \frac{1}{m-2} < 0 \rightarrow m < 2$ ①

$\Delta > 0 \checkmark$ ②

$S < 0 \rightarrow -1 < m < 2$ ③

① ② ③ $\rightarrow -1 < m < 2$

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$y = (m-2)x^2 - x(m+1)x + 1$

الف) $a < 0 \rightarrow m-2 < 0 \rightarrow m < 2$

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

$P < 0 \rightarrow \frac{1}{m-2} < 0 \rightarrow m < 2$

ب) $a > 0 \rightarrow m-2 > 0 \rightarrow m > 2$

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

$P < 0 \rightarrow m < 2$

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ب) $2x^2 - 2x + 1 = 0$ جواب: ① ② ③

$-\frac{b}{2a} = -1 \rightarrow \frac{1}{m-2} = -1 \rightarrow m = 1$

$m^2 + 2m - 2m + 1 \rightarrow 1 \rightarrow m = 1$

① ② ③ $\rightarrow m = 1$

④ ⑤ ⑥ $\rightarrow m = 1$

⑦ ⑧ ⑨ $\rightarrow m = 1$

⑩ ⑪ ⑫ $\rightarrow m = 1$

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⑯ ⑰ ⑱ $\rightarrow m = 1$

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$\frac{2m^2}{3} - (2 \sin \alpha) \frac{m^2}{3} = 0$

$\Delta \geq 0 \rightarrow 4 \sin^2 \alpha - 4 \geq 0 \rightarrow \sin^2 \alpha \geq 1 \rightarrow \sin \alpha = \pm 1$

$\frac{2}{3} m^2 - 2m + \frac{2}{3} = 0 \rightarrow m = \frac{2 \pm \sqrt{0}}{2} = \frac{2}{2} = 1$

$\frac{2}{3} m^2 + 2m + \frac{2}{3} = 0 \rightarrow m = \frac{-2 \pm \sqrt{0}}{2} = -1$

$\frac{2}{3} m^2 + 2m + \frac{2}{3} = 0 \rightarrow m = -1$

$\frac{2}{3} m^2 + 2m + \frac{2}{3} = 0 \rightarrow m = -1$

$\frac{2}{3} m^2 + 2m + \frac{2}{3} = 0 \rightarrow m = -1$

$\frac{2}{3} m^2 + 2m + \frac{2}{3} = 0 \rightarrow m = -1$

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$$y_n = \frac{(r_n^2 - r_{n-1}^2)(r_n^2 - r_{n-1}^2 - \omega)}{1 - r_n^2} = \frac{(-1)(r_{n+1}^2)(r_{n+1}^2 - \omega)}{(1 - r_n^2)(1 - r_n^2)} \xrightarrow{n \neq 1, 2} \frac{4r_n^2}{1 - r_n^2} = 4$$

$$\text{mean} \left| -\frac{\Delta}{2a} \rightarrow \frac{144 - \Sigma(-r_n)}{r \Sigma} = \frac{144}{r \Sigma} \quad (5)$$

$$rS = \omega P + V \Rightarrow r\left(-\frac{b}{a}\right) = \omega\left(\frac{c}{a}\right) + V \Rightarrow r^P\left(\frac{m+r}{m}\right) = \omega\left(-\frac{r}{m}\right) + V$$

$$\frac{r_{m+4}}{m} = \frac{V_{m-1}}{m} \rightarrow 142 \text{ km} \rightarrow m = 2 \text{ km} \xrightarrow{\text{multiplication}} \Sigma m^2 - 4m - r_2 b^2 - r_n^2 - 120$$

$$\alpha^r + \beta^r = S^r - rP \Rightarrow \frac{9}{2} + 1 = \left(\frac{14}{\Sigma}\right) \quad (5)$$

$$\frac{\Sigma \alpha + \beta \omega}{\omega \beta r} = \frac{\Sigma \alpha}{\omega \beta r} + \frac{\beta \omega}{\omega} \xrightarrow{(1)} \frac{\Sigma \alpha}{\frac{r}{\alpha r}} + \frac{\beta \omega}{\omega} = \frac{\alpha^r}{\omega} + \frac{\beta^r}{\omega} = \frac{1}{\omega} (\alpha^r + \beta^r)$$

$$\alpha \times \beta = r \Rightarrow \beta = \frac{r}{\alpha} \Rightarrow \alpha \beta^r = \frac{r^r}{\alpha^r} \quad (1)$$

$$= \frac{1}{\omega} (S^r - rP) = \frac{1}{\omega} (14\omega - r_c) = (19) \quad (5)$$

$$y_{r+1} = r_{n+1} \xrightarrow{n \neq r} y_r = 14 \Rightarrow \begin{cases} r \rightarrow \Sigma a + r b^2 = 10 \\ r \rightarrow 9a - r b^2 = 0 \Rightarrow r a = b^2 \end{cases} \Rightarrow \begin{cases} \Sigma a + 4a = 10 \\ a = 1 \\ b = 2 \end{cases}$$

$$y_r = 14 \Rightarrow \begin{cases} r \rightarrow 9a - r b^2 = 0 \Rightarrow r a = b^2 \\ r \rightarrow \Sigma a + r b^2 = 10 \end{cases}$$

$$\begin{cases} a = 1 \\ b = 2 \end{cases}$$

$$\text{Answer} = -\frac{b}{ra} = -\frac{r}{r} = \left(-\frac{r}{r}\right) \quad (5)$$

$$r_n^2 + (m+1)n + m + 4 = n \Rightarrow r_n^2 + mn + m + 4 = 0 \xrightarrow{\Delta \geq 0}$$

$$m^2 - 4m - \Sigma \Delta \geq 0 \Rightarrow (m-1)(m+2) = 0$$

$$m = 1, m = -2 \quad (1, 2)$$