

۲۰

	۱
۲. $\frac{1}{p}m + \frac{1}{p}m + \frac{1}{p}m = m$ الف) $\Delta > 0 \rightarrow (m+1)^2 - 4(\frac{1}{p}m + \frac{1}{p}m) = m^2 - 2m - 15 > 0$ $m \in \mathbb{R} - [-3, 5]$ ب) $\Delta = 0 \rightarrow m^2 - 2m - 15 = 0 \rightarrow m = -3, 5$ ج) $\Delta < 0 \rightarrow m^2 - 2m - 15 < 0 \xrightarrow{m \in [-3, 5]} m \in (-3, 5)$ د) $\Delta > 0 \rightarrow m^2 - 2m - 15 > 0 \rightarrow m \in (-\infty, -3] \cup [5, +\infty)$	۲. $\Delta > 0$ ۲. $\Delta = 0$ ۲. $\Delta < 0$ ۲. $\Delta > 0$
الف) $\Delta > 0$ $\frac{1}{m-2} < 0 \rightarrow m < 2$ ب) $\Delta < 0$ $\frac{1}{m-2} < 0 \rightarrow m < 2$ ج) $\Delta > 0$ $\frac{1}{m-2} < 0 \rightarrow m < 2$ د) $\Delta < 0$ $\frac{1}{m-2} < 0 \rightarrow m < 2$	۳
الف) $\Delta > 0 \rightarrow m^2 - 12m + 21 > 0 \rightarrow m < 2$ ب) $\Delta < 0 \rightarrow m^2 - 12m + 21 < 0 \rightarrow m < 2$ ج) $\Delta > 0 \rightarrow m^2 - 12m + 21 > 0 \rightarrow m < 2$ د) $\Delta < 0 \rightarrow m^2 - 12m + 21 < 0 \rightarrow m < 2$	۴
الف) $\Delta > 0 \rightarrow m^2 - 12m + 21 > 0 \rightarrow m < 2$ ب) $\Delta < 0 \rightarrow m^2 - 12m + 21 < 0 \rightarrow m < 2$ ج) $\Delta > 0 \rightarrow m^2 - 12m + 21 > 0 \rightarrow m < 2$ د) $\Delta < 0 \rightarrow m^2 - 12m + 21 < 0 \rightarrow m < 2$	۵

$$y = \frac{(r_n r - r_{n-1})(r_n r - r_{n-1} - \Delta)}{1 - n r}$$

$$\begin{array}{r} r_n r - r_{n-1} - \Delta \quad | \quad n+1 \\ - r_n r + r_n \quad | \quad r_n - \Delta \\ \hline - \Delta n - \Delta \\ \Delta n + \Delta \\ \hline \end{array}$$

$$\begin{array}{r} r_n r - r_{n-1} - 1 \quad | \quad n-1 \\ - r_n r + r_n \quad | \quad r_{n+1} \\ \hline n-1 \\ - n-1 \\ \hline 0 \end{array}$$

$$\frac{(n+1)(r_n - \Delta)(-1)(r_{n+1})}{(1-n)(1+n)}$$

$$y = -4n^2 + 12n + 8$$

$$y_5 = \frac{-8}{10} = \frac{144 + 120}{10} = \frac{264}{10}$$

6

$$rS = \Delta p + V$$

$$r\left(\frac{m+r}{m}\right) = \Delta\left(\frac{r}{m}\right) + V$$

$$\frac{r_{m+r}}{m} = \frac{-10 + Vm}{m} \rightarrow r_{m+r} = -10 + Vm$$

$$14 = r_m$$

$$\varepsilon = m$$

$$\alpha r + \beta r =$$

$$(\alpha + \beta)^r - r \alpha \beta$$

$$5^r - r p$$

7

$$f_n r - 4n - r = 0 \rightarrow S = \frac{r}{r}, p = -\frac{1}{r} \rightarrow \frac{q}{2} + 1 = \frac{1}{\varepsilon}$$

$$x^r - \Delta n + r = 0$$

$$(\alpha + \beta) = \Delta, \alpha \beta = r$$

$$\frac{r\alpha + \beta\Delta}{\Delta\beta r} = ? \Rightarrow \alpha\beta = r \rightarrow \beta = \frac{r}{\alpha} \xrightarrow{r\Delta} \beta^r = \frac{\varepsilon}{r} \xrightarrow{\Delta} \alpha\beta^r = \frac{r}{\alpha r}$$

$$\frac{r\alpha}{\Delta\beta r} + \frac{\beta r}{\Delta} \Rightarrow \frac{r\alpha}{\frac{r}{\alpha r}} = \frac{\alpha^r}{\Delta} + \frac{\beta r}{\Delta} = \frac{r}{\Delta} \rightarrow \frac{(\alpha + \beta)^r - r\alpha\beta(\alpha + \beta)}{\Delta} = \frac{12\Delta - r}{\Delta} = \frac{9\Delta}{\Delta} = 9$$

8

$$y = r_{n+1} \begin{cases} x = r \rightarrow y = 12 \\ x = -r \rightarrow y = r \end{cases}$$

$$y = ax^r + bn + \varepsilon \xrightarrow{x=r} ra + rb + \varepsilon = 12 \rightarrow ra + rb = 10 \rightarrow ra + \frac{r}{a} = \Delta \rightarrow \Delta a = \Delta \rightarrow a = 1, b = r$$

$$y = an^r + bn + \varepsilon \xrightarrow{n=-r} -ra^r - rb + r = r \rightarrow -ra^r - rb = 0 \rightarrow b = ra$$

9

$$y = x^r + r_n + \varepsilon \xrightarrow{C(1,3)} \frac{-b}{ra} = \frac{-r}{r \times 1} = \frac{-r}{r} = -1$$

$$r_n r + (m+1)n + m + 4 = n$$

$$r_n r + mn + m + 4 = 0$$

$$\Delta = m^r - \varepsilon(r)(m+4) = m^r - 12m - 4 = 0$$

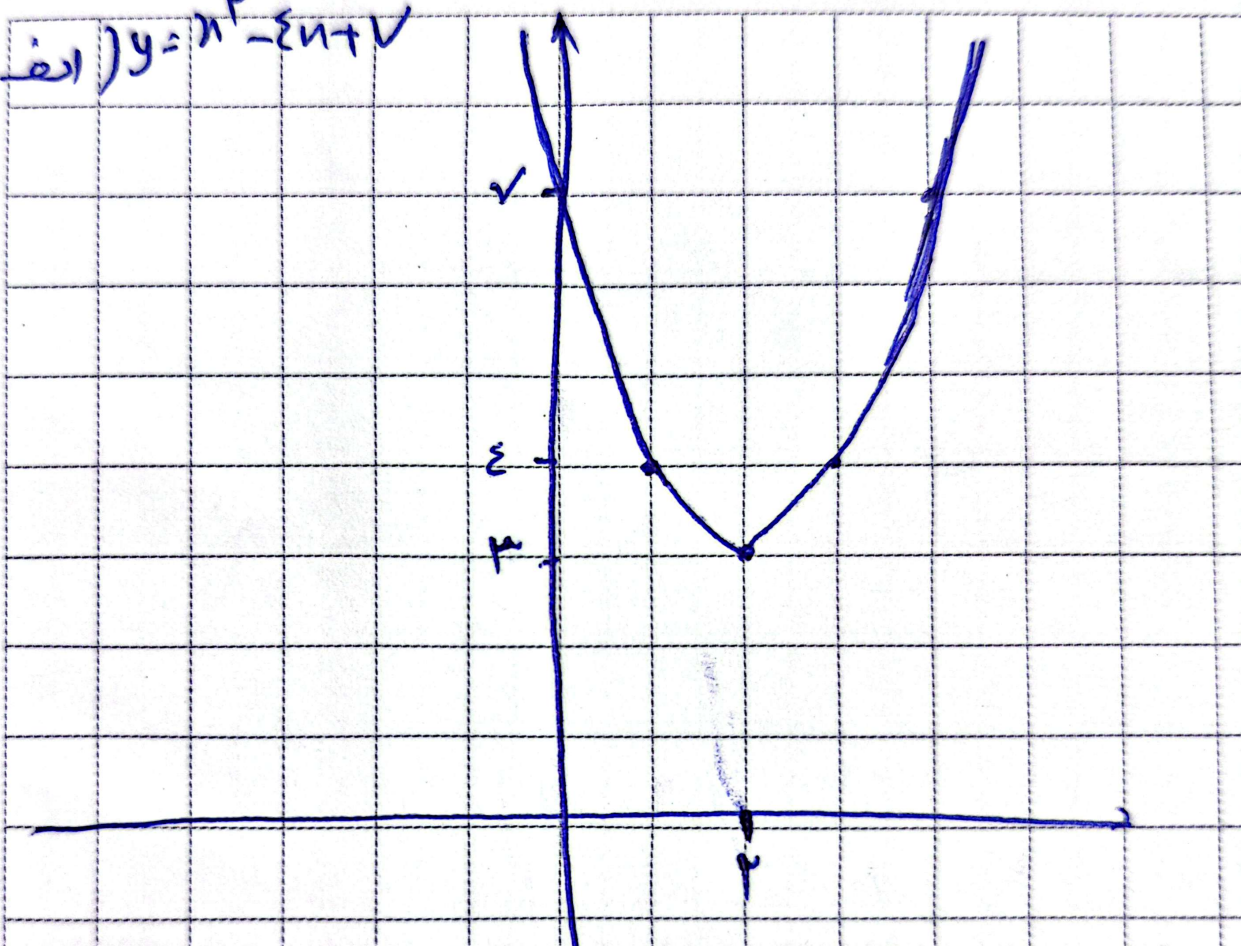
$$(m-12)(m+4) \rightarrow x_5 > 0 \rightarrow \frac{-m-1}{r} > 0 \rightarrow m < -1$$

$$m = 12 \times$$

$$m = -4 \checkmark$$

10

الف) $y = x^2 - 5x + 4$



$$\rightarrow y = -x^2 + 8x - 1$$

