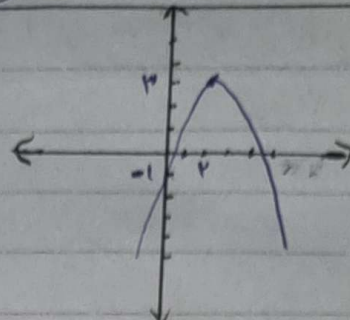
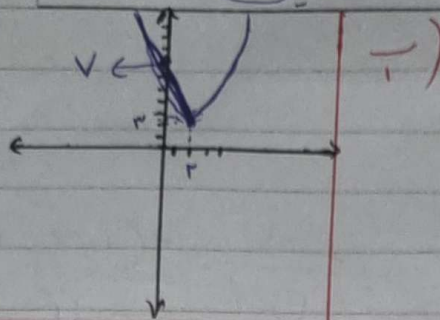


بسم الله الرحمن الرحيم رايان صفاريان تاليف ۱۲ یازدهم

الف) $a > 0$

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

$$\rightarrow f-1+V=0$$



①
 $a < 0$
 $\frac{-b}{2a} = 1$

$$-f+1-1=0$$

الف) $\Delta > 0 \rightarrow m^2 + 2m + 1 - 1m - 1 > 0 \rightarrow m^2 - 2m - 1 > 0 \rightarrow \frac{-2 \pm \sqrt{4+4}}{2} \rightarrow m \in (-\infty, -1) \cup (1, +\infty)$

ب) $\Delta = 0 \rightarrow (m-1)(m+1) = 0 \rightarrow m = -1 \text{ و } 1$

ج) $\Delta < 0 \rightarrow (m-1)(m+1) < 0 \rightarrow \frac{-2 \pm \sqrt{4-4}}{2} \rightarrow m \in (-1, 1)$

د) $\Delta \geq 0 \rightarrow (m-1)(m+1) \geq 0 \rightarrow \frac{-2 \pm \sqrt{4+4}}{2} \rightarrow m \in (-\infty, -1] \cup [1, +\infty)$

الف) $\Delta > 0 \rightarrow f m^2 + 1m + 1 - 1m + 1 > 0 \rightarrow f m^2 - 1m + 2 > 0$

$P > 0 \rightarrow \frac{1}{m-1} > 0 \rightarrow m-1 > 0 \rightarrow m > 1$

$S < 0 \rightarrow \frac{2m+1}{m-1} < 0 \rightarrow \frac{-1 \pm \sqrt{1+4}}{2} \rightarrow -1 < m < 1$

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

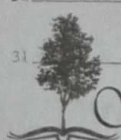
$\Delta > 0 \rightarrow m \in (-1, 1)$

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

ب) $\frac{2m+1}{2m-1} = \frac{m+1}{m-1} = -1 \rightarrow m+1 = -2m+1 \rightarrow m = 0$

$f \sin^2 \alpha - 1 \geq 0 \rightarrow \sin^2 \alpha \geq \frac{1}{f} \rightarrow \sin \alpha = \pm \frac{1}{\sqrt{f}} \rightarrow \frac{1}{f} n^2 + 1n + \frac{1}{f} = 0 \rightarrow n = \frac{-1 \pm \sqrt{1-4}}{2}$

$\sin \alpha = 1 \rightarrow \frac{1}{f} n^2 + 1n + \frac{1}{f} = 0 \rightarrow n = \frac{-1 \pm \sqrt{1-4}}{2}$



$$\frac{(r_n^r - r_n - 1)(r_n^r - r_n - \omega)}{1 - r^r} = \frac{(n+1)(r_n^r + 1)}{(n+1)(r_n - \omega)} \quad (1)$$

$$= -r_n^r + 1r_n + \omega$$

$$\frac{-\Delta}{F_a} = \frac{-(149 + 120)}{-25} = \frac{269}{25}$$

$$\frac{-b}{r_a} = \frac{13}{12} \quad \text{مخرج مشترک}$$

$$r_s = \omega p + v \rightarrow \frac{r_m + 4}{m} = \frac{-10}{m} + v \rightarrow \frac{r_m + 14}{m} = 0 \quad (2)$$

$$\rightarrow r_m = 14 \rightarrow m = f \rightarrow r_n^r - r_n - r \rightarrow s = \frac{r}{r}, p = \frac{1}{r}$$

$$a^r + p^r = s^r - r p = \frac{9}{f} + 1 = \frac{13}{f}$$

$$s = \omega \quad p = a b = r \rightarrow a = \frac{r}{b} \rightarrow a r = \frac{r}{b^r} \quad b^r = \frac{r}{a^r}$$

$$\frac{f_a}{1} \cdot \frac{f_a}{\omega} + \frac{b^{\omega}}{\omega b^r} = \frac{a^r}{\omega} + \frac{b^r}{\omega} = \frac{1}{\omega} (s^r - r p s) = \frac{1}{\omega} (14\omega - \frac{r}{b} r \omega) = 19 \quad (3)$$

$$r \rightarrow 1f / -r \rightarrow f / 0 \rightarrow f \rightarrow \boxed{C=f}$$

$$\begin{cases} f_a + r b = 10 \times r & 12a + r b = 10 \\ 9a - r b = 0 \end{cases} \Rightarrow a=1, b=r$$

$$\rightarrow \frac{r}{r_a} + r_n + f \rightarrow \frac{b}{r_a} = \frac{r}{r}$$

$$r_n^r + (m+1)r + m + 4 = n \rightarrow r_n^r + m n + m + 4 = 0 \rightarrow \Delta = 0 \rightarrow m^r - 1m - f = 0 \quad (4)$$

$$= (m-1r)(m+f) = 0 \rightarrow m=1r \rightarrow r_n^r + 1r_n + 1 \rightarrow n = \frac{1r}{r} = r \quad \text{مخرج مشترک}$$

$$m = -f \rightarrow r_n^r - f n + r \rightarrow n = \frac{+f}{f} = 1 \quad (5)$$

$$\rightarrow \boxed{m = -f}$$