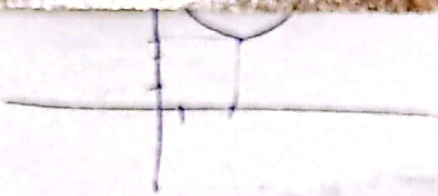
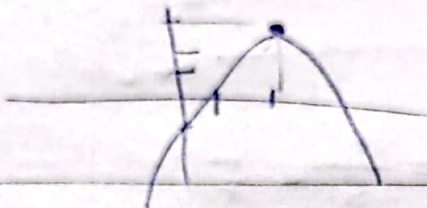


1) الف

1- اضا قاسي



2) الف



$$(m+1)^2 - 4(c)(\frac{1}{2}m+c) > 0$$

3- الف

$$\Rightarrow (m-a)(m+c) > 0 \Rightarrow (-\infty, -c) \cup (a, +\infty)$$

4- الف

3

$$\Rightarrow m^2 - 2m - 1a = 0 \Rightarrow (m-a)(m+c) = 0 \Rightarrow m = -c+a$$

$$D < 0 \Rightarrow m^2 - 2m - 1a < 0 \Rightarrow m \in (-c, a)$$

$$D > 0 \Rightarrow m^2 - 2m - 1a > 0 \Rightarrow m \in (-\infty, -c] \cup [a, +\infty)$$

$$\Delta > 0 \Rightarrow \frac{-1 \pm \sqrt{1+4a}}{2}$$

4- الف

$$S < 0 \Rightarrow \left. \begin{matrix} \frac{-1 \pm \sqrt{1+4a}}{2} \end{matrix} \right\} \text{ جميع قيم } m$$

$$P > 0 \Rightarrow m > 2$$

$$D > 0 \checkmark$$

3- الف

$$S < 0 \Rightarrow (-1, 2) \left\{ \begin{matrix} m \in (-1, 2) \end{matrix} \right.$$

$$P < 0 \Rightarrow m < 2$$

$$D \Rightarrow m^2 - 1m + 21 > 0 \Rightarrow \checkmark$$

الف

$$m^2 - 1 < 0 \Rightarrow m \in (-1, 1) \Rightarrow m \in (-\infty, 1)$$

$$2m - 1 = m + 1 \Rightarrow m = 2$$

3- الف

$$\Delta > 1 \Rightarrow r \sin^2 > 1 \Rightarrow \sin^2 = 1 \Rightarrow \sin = \pm 1$$

$$s > 1 \Rightarrow \sin > 1 \quad \xrightarrow{\sin = 1}$$

$$\Rightarrow m^2 - 2m + 1 \quad \xrightarrow{m = \frac{1}{2} = \frac{5}{2}}$$

$$m^2 \neq 1$$

$$\rightarrow \text{نقطة} \quad -(m+1)(m-1) = -4m^2 + 12m + 1$$

$$\rightarrow \frac{-\Delta}{2a} = \frac{-(12 + 12)}{-2} = \frac{24}{2} = 12$$

$$r \left(\frac{m+1}{m} \right) = \Delta \left(\frac{-r}{m} \right) + 1 \Rightarrow m = 5$$

$$s - r p = 9 + 1 = 10$$

$$\beta^r = \alpha \beta - r$$

$$\beta^r = \alpha \beta^r - r \beta$$

$$\beta^r = \alpha \beta^r - 1 \cdot \beta$$

$$\beta^r = 10 \alpha (\alpha \beta - r)$$

$$\rightarrow \frac{10 \alpha \beta - 10 r}{\beta^r} = \frac{10 (\alpha \beta - r)}{\alpha \beta - r} = 10$$

$$a \frac{r}{m} + b \frac{r}{m} = a m^r + (b-r)m - 1 = 0$$

$$\Rightarrow a = 1, b = r$$

$$\rightarrow y_1 = m^r + r m + 1 \Rightarrow -\frac{r}{2}$$

$$\begin{cases} r a + r b = 10 \\ 9a - r b = 0 \end{cases} \quad \rightarrow \quad \begin{cases} r a + r b = 10 \\ 9a - r b = 0 \end{cases}$$

$$r m^r + (m+r) m + 4m = 0 \quad \Delta = 0 \quad m^r = 11 - 11m \quad \begin{cases} m = 5 \\ m = -1 \end{cases}$$