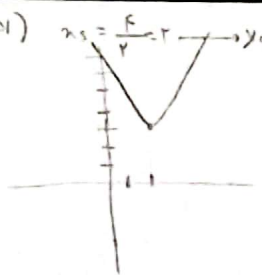


الف) $x_3 = \frac{f}{2} = 2 \rightarrow y_3 = 3$  ب) $x_3 = \frac{-f}{2x-1} = 2 \rightarrow y_3 = 3$ 	1
$\Delta > 0 \rightarrow (m+1)^2 - 4(2)(\frac{1}{4}m^2) > 0 \rightarrow m^2 - 2m - 10 > 0 \rightarrow (m-5)(m+2) > 0$ (الف) $m^2 + 2m + 1 = 2m - 10 \rightarrow 14$ $(-\infty, -2) \cup (5, +\infty)$ $\Delta = 0 \rightarrow m^2 - 2m - 10 = 0 \rightarrow m = 5 \text{ و } -2$ (ب) $\Delta < 0 \rightarrow m^2 - 2m - 10 < 0 \rightarrow -2 < m < 5$ (ج) $\Delta > 0 \rightarrow m^2 - 2m - 10 > 0 \rightarrow (-\infty, -2] \cup [5, +\infty)$ (د)	2
الف) $\Delta > 0 \quad S < 0 \quad P > 0 \rightarrow (-2m-2)^2 - 4(m-1)(1) > 0$ $4m^2 + 4 + 8m - 4m + 4 > 0 \rightarrow 4m^2 + 4m + 8 > 0 \rightarrow m^2 + m + 2 > 0$ $2m+2 < 0 \rightarrow m < -1 \rightarrow (-\infty, -1)$ $P > 0 \rightarrow \frac{1}{m-1} > 0 \rightarrow (1, +\infty)$ $\rightarrow (1, +\infty)$ ب) $a > b \rightarrow S < 0 \rightarrow \frac{2(m+1)}{m-2} < 0$ $\frac{-1}{+} \frac{2}{-} \rightarrow (-1, 2)$ $P < 0 \rightarrow \frac{1}{m-2} < 0 \rightarrow (-\infty, 2)$ $\rightarrow (-1, 2)$	3
الف) $\Delta > 0 \rightarrow f(m+1)^2 - f(m+1)(1) > 0 \rightarrow fm^2 + 4m + 1 - fm + 1 > 0$ $fm^2 + 4m + 2 - fm + 1 > 0 \rightarrow fm^2 - fm + 5m + 3 > 0$ $\rightarrow m^2 - m + 5 > 0$ $\rightarrow m^2 - m + 5 > 0$ $\rightarrow m^2 - m + 5 > 0$ ب) $\Delta < 0 \rightarrow \frac{c}{a} < 0 \rightarrow \frac{1}{m-2} < 0 \rightarrow (-\infty, 2)$ $\rightarrow (-\infty, 2)$ ج) $x_3 = -2 \rightarrow \frac{-b}{2a} = \frac{2(m+1)}{2(m-2)} = 2 \rightarrow -fm + 4 = 2m + 2 \rightarrow 4m = 2 \rightarrow m = \frac{1}{2}$	4
$\frac{2m^2}{a} \cdot \frac{2\sin \alpha}{b} \cdot \frac{1}{c} = 0 \rightarrow 4m^2 - 12\sin \alpha + 9 = 0 \rightarrow \Delta = 0 \rightarrow \frac{1}{2}$ $m = \frac{1}{2} \Rightarrow \frac{1}{2}$	5

$$\frac{(m^2 - 2m - 1)(m^2 - 2m - 0)}{1 - m^2}, \text{ لا انقسم؟}$$

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

$$y_s = -\frac{\Delta}{f_a} = \frac{199 - f(-4)(5)}{-24} = 12,1 \times 10^3 \approx 12,1 \cdot f$$

$$w_s = a p + v \rightarrow \frac{m+9}{m} = a \left(\frac{-r}{m} \right) + v \rightarrow \frac{m+14}{m} = v \times \frac{r}{m}$$

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$$m+14 = v m \rightarrow m = 14 \rightarrow m = f$$

$$\alpha^r + \beta^r = s^r - r p = \left(\frac{f+r}{r} \right)^r - r \left(-\frac{r}{f} \right) = \frac{13}{f^2}$$

$$x^r - \frac{a m + r}{s} = 0 \rightarrow \alpha \beta = r \text{ و } \alpha + \beta = 0 \rightarrow \beta = -\frac{r}{\alpha}$$

$$\frac{f \alpha + \beta^a}{\Delta \beta^r} = \frac{f \alpha}{\Delta \beta^r} + \frac{\beta^r}{\Delta} = \frac{f \alpha}{\Delta f \alpha^r} = \frac{f \alpha^r}{f \alpha^r} + \frac{\beta^r}{\Delta} = \frac{\alpha^r + \beta^r}{\Delta}$$

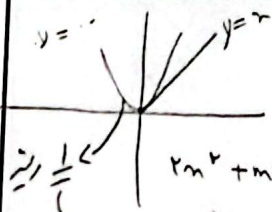
$$= \frac{s^r - r s p}{\Delta} = \frac{120 - r(5)(r)}{\Delta} = 19$$

$$n=2 \rightarrow 1f = f a + 2b + 1r \xrightarrow{a=1} 1f = 1a + 4b + 1r \rightarrow 1f + 4b = 1r \rightarrow 4b = 1r - 1f = 1a$$

$$n=4 \rightarrow f = 4a - 2b + 1r \xrightarrow{a=1} 1f = 1a - 4b + 1r$$

$$\Delta = f a + r \rightarrow a=1$$

$$\rightarrow y = \alpha^r + r n + 1 \rightarrow \alpha, \beta \rightarrow m_s = -\frac{r}{f}$$



$$\rightarrow m^r + (m+1)m + m r = x$$

$$m^r + m m + m + 4 = 0 \rightarrow m^r - f(r)(m+4) = 0 \rightarrow m^r - 1m - 1r = 0$$

(-1, 1)

$$(m - 1r)(m + 1r) = 0 \rightarrow m = 1r \leq 1 \rightarrow (-1, 1)$$