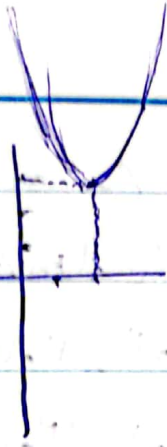


(الف)

$$x^2 - 2x + 7$$

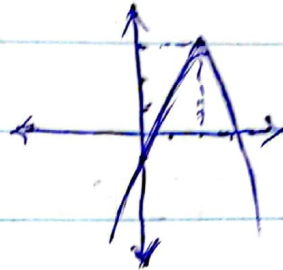
$$x_s = \frac{-b}{2a} = \frac{2}{2} = 1$$

$$x=1 \Rightarrow 1 - 2 + 7 = 6$$



$$y = -x^2 + 4x - 1$$

$$x_s = \frac{-b}{2a} = 2 \rightarrow y_s = -4 + 8 - 1 = 3$$



①

(الف) : درجه متغیر

$$\Delta \geq 0 \Rightarrow (m+1)^2 - 5x^2 \left(\frac{1}{2}m+2 \right) \geq 0$$

$$m^2 + 2m + 1 - 5m - 10 > 0$$

$$-3 < m < 4$$

$$m^2 - 3m - 9 > 0 \quad \frac{-3}{2} < \frac{9}{2}$$

$$m = +9 \text{ و } m = -3$$

②

(ب) یک درجه متغیر

$$\Delta = 0 \Rightarrow (m+1)^2 - 5x^2 - 1 = 0$$

$$(m+1)^2 - 5x^2 \left(\frac{1}{2}m+2 \right) > 0$$

$$m = -3 \text{ و } m = 4$$

$$m^2 - 2m - 1 = 0$$

درجه حقیقی ثابت

$$\Delta < 0 \Rightarrow m^2 - 2m - 1 < 0$$

$$\frac{-2}{2} < \frac{1}{2}$$

$$-1 < m < 3$$

درجه ثابت

$$\Delta \geq 0 \Rightarrow m^2 - 2m - 1 \geq 0$$

$$\frac{-2}{2} < \frac{1}{2}$$

$$-1 \leq m \leq 3$$

الف) $\Delta > 0 \Rightarrow \frac{c}{a} > 0, -\frac{b}{a} < 0$

$$r_x = x^T - x + r$$

$$r_2 + \delta v$$

$$x^T - x^T W B^T F N$$

WB^2

PaB-1

$$B^0 = \omega B^N + N$$

$$W_B = \frac{1}{2} W_B - \frac{1}{2} W_B$$

$$y_i = a x_i^m + b x_i + c \xrightarrow{c=r} y = a x^m + b x + r$$

$C \rightarrow y_r = r_n + 1 \rightarrow n = r \rightarrow y_r = 1^r \rightarrow (M, 1^r)$

$\hookrightarrow x = -1 \rightarrow y = 1 \rightarrow (-1, 1)$

جایگاه اول
درای

$$r_a + r_b + r_c = 1 \Rightarrow r_a + r_b = 1 - r_c$$

$$9a - 11b + r = r \Rightarrow 9a - 11b = 0$$

$$\Rightarrow r/a = \frac{1}{\sqrt{2}}$$

$$y_1 = \frac{1}{V} x - \frac{V}{x_0} x + \sqrt{x}$$

$$\Rightarrow \text{As } \frac{1}{\sqrt{1-\frac{v^2}{c^2}}} = \frac{1}{\sqrt{1-\frac{9}{16}}} = \frac{4}{\sqrt{7}}$$

$$[x] \Rightarrow x^m + (m+1)x + (m+1) = x$$

$$x^m + mx + x - x + m + 1 = 0$$

$$x^m + mx + m + 1$$