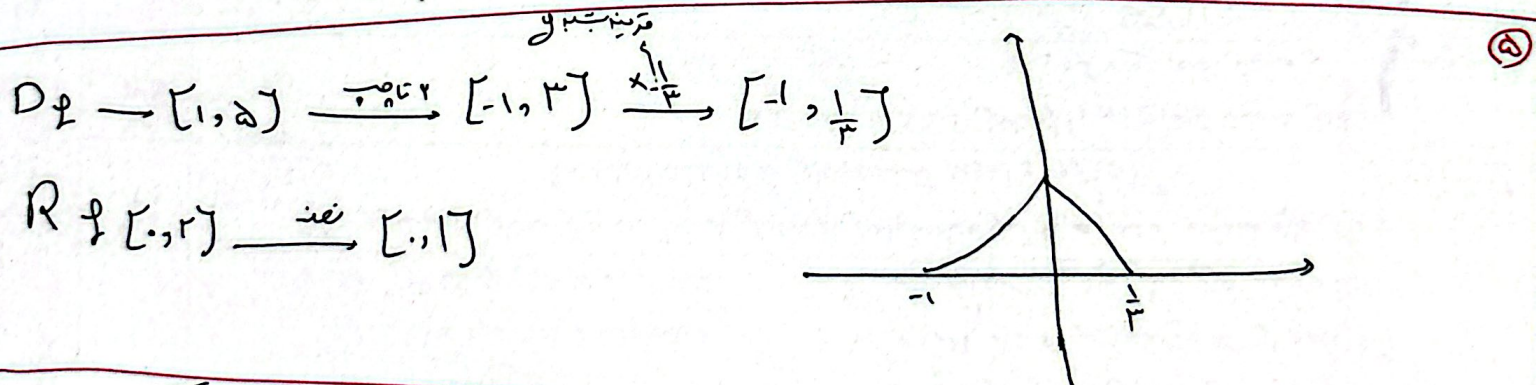
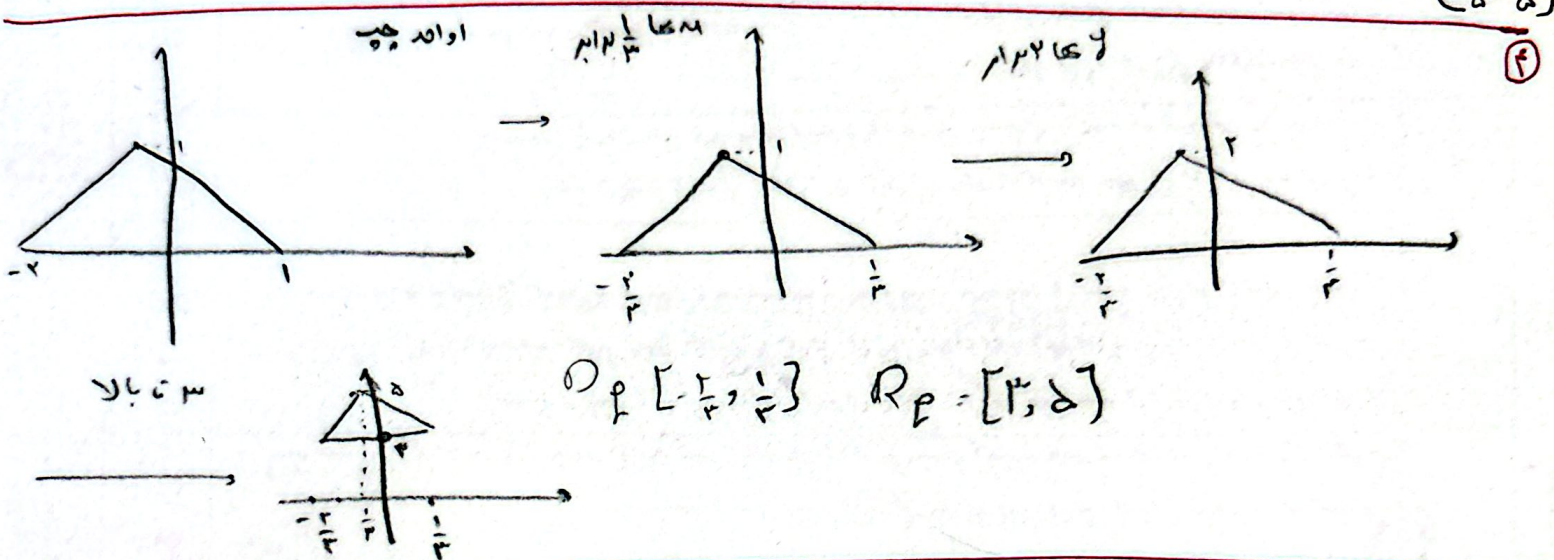


① $-2 \leq \frac{3m+2}{5} \leq 2 \rightarrow -4 \leq m \leq 4 \rightarrow D_f = [-4, 4]$

② $m = -2 \Rightarrow 3m - 2 = -8 \quad | \quad m = 3 \Rightarrow 3m - 2 = 7 \quad D_f = [-8, 7]$

③ $m = -1 \rightarrow -1 \quad m = 3 \rightarrow 5 \rightarrow -1 \leq 2 - 5m < 5 \rightarrow -2 \leq -5m < 3 \Rightarrow D_f = \left[-\frac{3}{5}, \frac{2}{5}\right]$



⑥ معادله سهی بار آس $(n, k) \rightarrow a(m-n)^2 + k$ موقع انتقال ضریب تغییر میکند

$y = -\frac{1}{2}(m-4)^2 + 3 \rightarrow (m-4)^2 = 9 \rightarrow m \in \{1, 7\}$

⑦ $1 \xrightarrow{\frac{1}{2}x-1} -1 \xrightarrow{\frac{1}{2}x-1} -\frac{1}{2} \quad | \quad 4 \xrightarrow{x-2} -8 \xrightarrow{\frac{1}{2}x-1} -7$

$(\alpha, \beta) \rightarrow \left(-\frac{1}{2}, -7\right) \quad \alpha \beta \leq \frac{7}{2}$

① چون مسئله از سمت چپ

$$\left. \begin{array}{l} a+1 \leq 2 \rightarrow a \leq 1 \\ b-1 \leq 4 \rightarrow b \leq 5 \end{array} \right\} \rightarrow a-b \leq 4$$

② $n \leq 2 \rightarrow \frac{n}{2} + 1 \leq \frac{1}{2} \mid n \leq 8 \rightarrow \frac{n}{2} + 1 \leq \frac{1}{2} \quad \text{در } [-\frac{1}{2}, \frac{1}{2}]$

$R_f = [-1, 2] \xrightarrow{\times 2} [-2, 4] \xrightarrow{\text{سرتانوسیم}} [-5, 1] \xrightarrow{\text{تقریباً}} [0, 5]$
 زیرا $[0, \sqrt{5}] = R_f$

③ $g(m) = \left| \frac{m-1}{2m-3} \right| + 1 \rightarrow g(m) + m < \dots \rightarrow \left| \frac{m-1}{2m-3} \right| + 1 + m < \dots$

$\rightarrow \left| \frac{m-1}{2m-3} \right| < -1-m \rightarrow -1-m > \dots \rightarrow m < -1 \quad I$

جواب قدر مطلق همواره بزرگتر از صفر است.

صورت و مخرج در ازای $m < -1$ منفی می باشد $\Rightarrow$ عبارت $\oplus$ می باشد

$\frac{m-1}{2m-3} < -1-m \rightarrow \frac{m-1}{2m-3} + (m+1) < \dots \rightarrow \frac{(m-1) + (m+1)(2m-3)}{2m-3} < \dots$

$\frac{2m^2 - \epsilon}{2m-3} < \dots \rightarrow 2m^2 - \epsilon < \dots \rightarrow m > \sqrt{2}, m < -\sqrt{2} \quad II$

همواره $\ominus$

$I, II \rightarrow m \in (-\infty, -\sqrt{2}]$