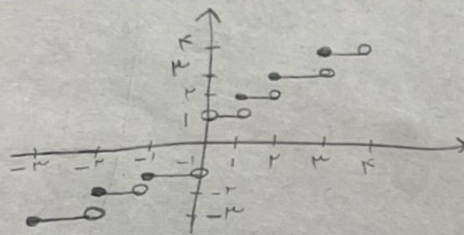


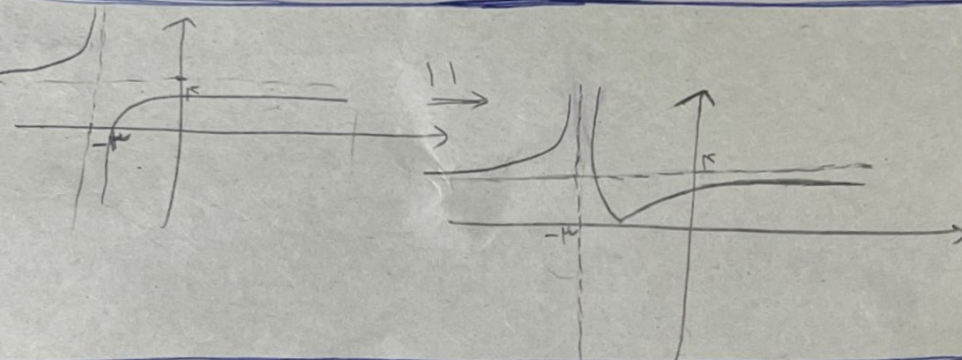
الف) $n=1$
 $\begin{cases} a=1 \\ n=-\frac{b}{1a} \end{cases} \rightarrow \begin{bmatrix} 1 \\ -1 \\ 0 \end{bmatrix}$
 $R_p = [-1 \ 1]$

$\Rightarrow$ $\begin{cases} n=1 \\ n=-1 \\ n=-\frac{b}{1a} \end{cases} \rightarrow \begin{bmatrix} -1 \\ -1 \\ 0 \end{bmatrix}$
 $R_p = [-1 \ 0]$



x	y
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1

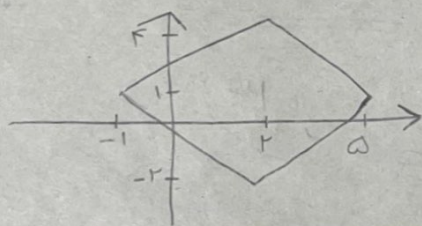
$y = \frac{n+1}{n+2}$



$n=1 \rightarrow \begin{cases} y=1 \\ y=-1 \end{cases}$

$n=2 \rightarrow \begin{cases} y=2 \\ y=-2 \end{cases}$

$n=3 \rightarrow \begin{cases} y=3 \\ y=-3 \end{cases}$



الف) $x + \frac{1}{x} = a \rightarrow a^2 + 1 \rightarrow \begin{bmatrix} 1 \\ 1 \\ 0 \end{bmatrix}$
 $R_p = (0, +\infty)$

$\Rightarrow -\sin^2 x + 2\sin x + 1 \rightarrow \begin{bmatrix} -1 \\ 1 \\ 1 \end{bmatrix}$
 $R_p = [0 \ 2]$

$$f(x) = \left\{ \begin{array}{l} (1, \frac{19}{\mu}), (r, \frac{19}{\mu}) \\ (r, 9), (r, \frac{14}{\mu}) \\ (0, \frac{19}{\mu}), (9, 1) \\ (v, \frac{19}{\mu}), (1, \frac{19}{\mu}), (9, v) \end{array} \right\}$$

④

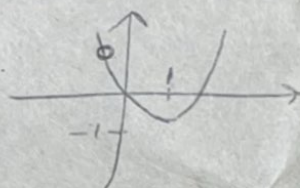
$$x=r \rightarrow 8a+rb+c=0$$

$$x=r \rightarrow 9a+r^2b+c=1$$

$$\Rightarrow R_f = [0, +\infty)$$

⑤

$$\frac{x(x-r)(x+r)}{(x+r)}$$



$$\begin{array}{l} a=b=-r \\ c=-1 \end{array}$$

$$f(r)=0$$

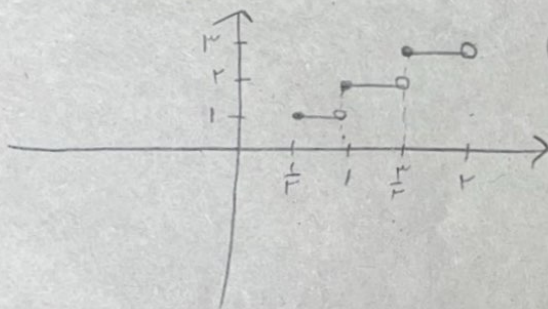
⑥

$$\sqrt[n]{(x-r)^n} = x-r$$

$$\begin{array}{l} a=-r \\ b=r \end{array}$$

$$R_f = [-r, r]$$

⑦



مقطع

⑧