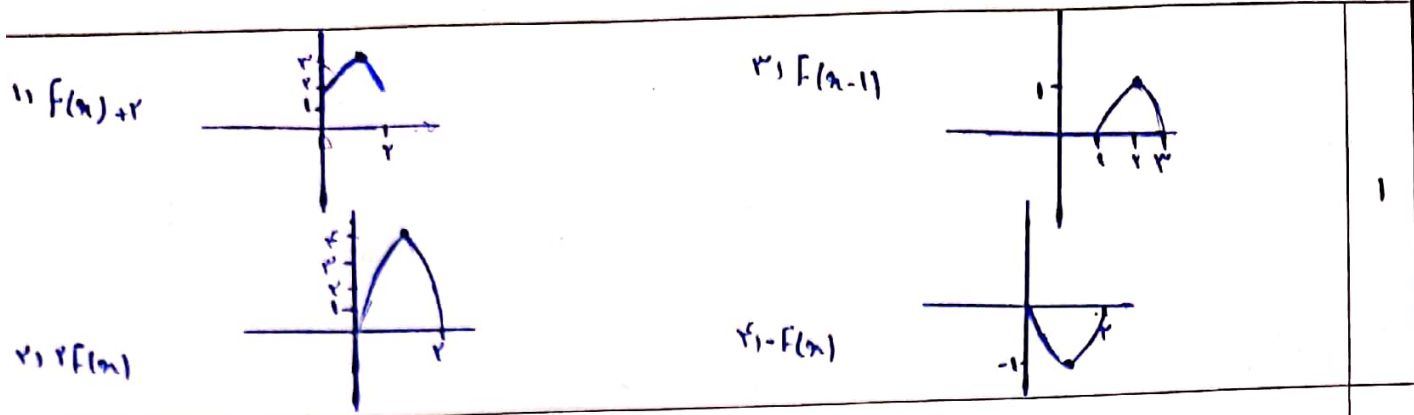




$1) n^2 - 4n + 4 > 0 \Rightarrow (n-2)(n-2) > 0 \begin{cases} n=2 \\ n=2 \end{cases}$	$\begin{array}{c cc} n & 2 & 2 \\ \hline & + & - \end{array}$	$DF = (2, +\infty) \cup (-\infty, 2)$	2
$2) n^2 - 4n + 4 \leq 0 \Rightarrow (n-2)(n-2) \leq 0 \begin{cases} n=2 \\ n=2 \end{cases}$	$\begin{array}{c cc} n & 2 & 2 \\ \hline & + & - \end{array}$	$DF = (1, 2)$	
$3) n^2 + 4n + 4 > 0 \Rightarrow (n+2)(n+2) > 0 \begin{cases} n=-2 \\ n=-2 \end{cases}$	$\begin{array}{c cc} n & -2 & -2 \\ \hline & + & - \end{array}$	$DF = [-\infty, -2] \cup [-2, +\infty)$	
$4) n^2 - 4n + 4 < 0 \Rightarrow (n-2)(n-2) < 0 \begin{cases} n=2 \\ n=2 \end{cases}$	$\begin{array}{c cc} n & 2 & 2 \\ \hline & + & - \end{array}$	$DF = [1, 2]$	

$1) \frac{n^2 - 4n + 4}{n-2} < 0 \Rightarrow \frac{(n-2)(n-2)}{n-2} < 0 \begin{cases} n=2 \\ n=2 \\ n=2 \end{cases}$	$\begin{array}{c ccc} n & 2 & 2 & 2 \\ \hline & + & - & + \end{array}$	$DF = (-\infty, 1) \cup (2, +\infty)$	3
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$1) \frac{n^2 - 1}{n^2 + 4n + 4} > 0 \Rightarrow \frac{(n-1)(n+1)}{(n+2)(n+2)} > 0 \begin{cases} n=1 \\ n=-1 \end{cases}$	$\begin{array}{c ccc} n & -1 & 1 & 2 \\ \hline & + & - & + \end{array}$	$DF = (-\infty, -1] \cup (2, +\infty)$	
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$1) y = \sqrt{\frac{n^2 - 1}{n^2 - n}} \Rightarrow \frac{n^2 - 1}{n^2 - n} > 0 \Rightarrow \frac{(n-1)(n+1)}{n(n-1)} > 0 \begin{cases} n=1 \\ n=1 \end{cases}$	$\begin{array}{c ccc} n & -1 & 0 & 1 \\ \hline & + & - & + \end{array}$	$DF = (-\infty, 1) \cup (0, 1) \cup (1, +\infty)$	4
$2) n^2 - n > 0 \Rightarrow n(n-1) > 0 \begin{cases} n=0 \\ n=1 \end{cases}$	$\begin{array}{c ccc} n & -1 & 0 & 1 \\ \hline & + & - & + \end{array}$	$DF = (-\infty, 0] \cup (1, +\infty)$	

$1) y = \sqrt{\frac{n^2 - 14}{n^2 - 2n + 2}} \Rightarrow \frac{n^2 - 14}{n^2 - 2n + 2} > 0 \Rightarrow \frac{(n-4)(n+4)}{(n-1)(n-2)} > 0 \begin{cases} n=4 \\ n=-4 \end{cases}$	$\begin{array}{c ccc} n & -4 & 1 & 2 \\ \hline & + & - & + \end{array}$	$DF = (-\infty, 4] \cup (1, 2) \cup (2, +\infty)$	
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$1) y = \sqrt{2 - \sqrt{2 - n}} \Rightarrow \sqrt{2 - n} > 0 \Rightarrow 2 - n > 0 \Rightarrow n < 2$	$\left. \begin{aligned} & 2 - \sqrt{2 - n} > 0 \Rightarrow \sqrt{2 - n} < 2 \Rightarrow 2 - n < 4 \Rightarrow n > -2 \end{aligned} \right\} \Rightarrow DF = [-2, 2]$	5
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$1) y = \sqrt{2 - \sqrt{2 - n}} \Rightarrow \sqrt{2 - n} > 0 \Rightarrow 2 - n > 0 \Rightarrow n < 2$	$\left. \begin{aligned} & 2 - \sqrt{2 - n} > 0 \Rightarrow \sqrt{2 - n} < 2 \Rightarrow 2 - n < 4 \Rightarrow n > -2 \end{aligned} \right\} \Rightarrow DF = [2, 11]$	
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$$1) y = \sqrt{r-r^2} \Rightarrow r-r^2 \geq 0 \Rightarrow r(1-r) \geq 0 \Rightarrow 0 \leq r \leq 1 \Rightarrow r \in [0, 1] \quad DF = [-\sqrt{r}, \sqrt{r}]$$

8

$$1) y = \sqrt{r|n|-1} \Rightarrow r|n|-1 \geq 0 \Rightarrow r|n| \geq 1 \Rightarrow |n| \geq \frac{1}{r} \Rightarrow n \in (-\infty, -\frac{1}{r}] \cup [\frac{1}{r}, \infty)$$

$$\frac{n}{1} \geq \frac{1}{r} \Rightarrow n \geq \frac{1}{r}$$

$$DF = \mathbb{R} - (-\frac{1}{r}, \frac{1}{r})$$

$$1) y = \sqrt{\frac{|n|+1}{|n|-1}} \Rightarrow |n|-1 \neq 0 \Rightarrow |n| \neq 1 \Rightarrow n \neq \pm 1 \quad DF = \mathbb{R} - \{-1, 1\}$$

Y

$$1) y = \sqrt{\frac{\sqrt{x+1}}{\sqrt{x}-1}} \Rightarrow \sqrt{x}-1 \neq 0 \Rightarrow \sqrt{x} \neq 1 \Rightarrow x \neq 1 \quad DF = \mathbb{R}^+ - \{1\}$$

$$1) \frac{\sin x}{r \cos x - 1}$$

$$\Rightarrow r \cos x - 1 \neq 0 \Rightarrow r \cos x \neq 1 \Rightarrow \cos x \neq \frac{1}{r}$$

$$DF = \mathbb{R} - \{x \mid \cos x = \frac{1}{r}\}$$

$$1) y = \frac{\tan x + r}{\cot x - 1} \Rightarrow \frac{\cos x}{\sin x} - 1 \neq 0$$

$$\frac{\cos x}{\sin x} \neq 1 \Rightarrow DF = \mathbb{R} - \{x \mid \frac{\cos x}{\sin x} = 1\}$$

A

$$1) \frac{\cos x + 1}{r \sin x + 1} \Rightarrow r \sin x + 1 \neq 0 \Rightarrow r \sin x \neq -1 \Rightarrow \sin x \neq -\frac{1}{r}$$

$$DF = \mathbb{R} - \{x \mid \sin x = -\frac{1}{r}\}$$

$$1) y = \frac{\sin x + 1}{r \sin x + r} \Rightarrow r \sin x + r \neq 0 \Rightarrow r \sin x \neq -r \Rightarrow \sin x \neq -1$$

$$DF = \mathbb{R} - \{x \mid \sin x = -1\}$$

$$y = \frac{1}{\sqrt{r|n-r|-\frac{1}{r}}} \Rightarrow r|n-r|-\frac{1}{r} > 0 \Rightarrow r|n-r| > \frac{1}{r} \Rightarrow |n-r| > \frac{1}{r^2} \Rightarrow n > r + \frac{1}{r^2} \text{ or } n < r - \frac{1}{r^2}$$

$$DF = (-\infty, r - \frac{1}{r^2}) \cup (r + \frac{1}{r^2}, \infty)$$

9

$$1) y = \sqrt{r-r|n|} \Rightarrow r-r|n| \geq 0 \Rightarrow r \geq r|n| \Rightarrow 1 \geq |n| \Rightarrow n \in [-1, 1] \quad DF = [-r, r]$$

10

$$1) y = \sqrt{\frac{|n|}{|n|}} \Rightarrow |n| \neq 0 \Rightarrow n \neq 0$$

$$DF = \mathbb{R} - \{0\}$$