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$$\sqrt{r-m-r} \Rightarrow m-r \geq 0 \quad (-)$$

$$m \geq r \quad \text{شماره}$$

$$r-m-r \geq 0 \quad (r \geq \sqrt{m-r}) \Rightarrow$$

$$r \geq m-r \Rightarrow m \leq 11 \quad \text{شماره}$$

$$(1, 2) \cap (5, 6) = \emptyset \quad \text{و} \quad r \leq m \leq 11 \Rightarrow$$

$$D_f = [r, 11]$$

$$y = \sqrt{r-m-r} \quad (ii)$$

$$r-m \geq 0 \quad (m \leq r) \quad \text{شماره}$$

$$r-m-r \geq 0 \quad -\sqrt{r-m} \geq -r$$

$$\sqrt{r-m} \leq r \quad \text{شماره} \quad r-m \leq 14 \Rightarrow$$

$$(m \geq -14) \quad \text{شماره}$$

$$(1, 2) \cap (5, 6) = \emptyset \quad \text{و} \quad -14 \leq m \leq 14 \quad D_f = [-14, 14]$$

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$$y = \sqrt{r-m-r} \Rightarrow r-m-r \geq 0 \quad (-)$$

$$r-m \geq r \Rightarrow m \geq r \Rightarrow$$

$$-r \geq m \geq r$$

$$D_f = (-\infty, -r] \cup [r, +\infty)$$

$$y = \sqrt{r-m-r} \Rightarrow r-m-r \geq 0 \quad (ii)$$

$$r \geq m-r \Rightarrow m \leq r \Rightarrow$$

$$-r \leq m \leq r \quad D_f = [-r, r]$$

$$[-r, r]$$

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$$y = \sqrt{\frac{r-m+1}{r-m-r}} \Rightarrow \frac{r-m+1}{r-m-r} \quad (-)$$

$$\sqrt{r-m} \geq 0 \Rightarrow r-m \geq 0$$

$$D_f = [0, +\infty) - \{9\}$$

$$y = \sqrt{\frac{r-m+1}{r-m-r}} \Rightarrow \frac{r-m+1}{r-m-r} \quad (ii)$$

$$r-m-r \neq 0 \quad r-m \neq r \quad m \neq r$$

$$D_f = \mathbb{R} - \{r\}$$

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$$y = \sqrt{\frac{r-m}{r-m-r}} \Rightarrow \frac{r-m}{r-m-r} \quad (-)$$

$$r-m \geq r \quad m \leq r \quad m \leq r \quad \text{شماره}$$

$$r-m-r \neq 0 \quad r-m \neq r$$

$$m \neq -1, 1 \quad \text{شماره}$$

$$D_f = (-\infty, 1] - \{-1, 1\}$$

$$y = \sqrt{\frac{r-m}{r-m-r}} \Rightarrow \frac{r-m}{r-m-r} \quad (ii)$$

$$r-m \geq r \Rightarrow m \leq r \quad -r \leq m \leq r$$

$$r-m-r \neq 0 \quad +0/0$$

$$D_f = [-r, r]$$

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$$y = \frac{1}{\sqrt{m|m|}} \Rightarrow \text{...} \quad m|m| > 0$$

$$D_f = \mathbb{R}^+ \Rightarrow (0, +\infty)$$

$$\Rightarrow m > 0$$

$$y = \frac{m+1}{\sqrt{m|m|}} \Rightarrow \dots$$

$$D_f = \mathbb{R}^+ \Rightarrow (0, +\infty)$$

$$\Rightarrow m > 0$$

$$y = \frac{1}{\sqrt{r-|r|}} \Rightarrow r-|r| > 0$$

$$|r| < r \Rightarrow r < 0$$

$$D_f = (-\infty, 0)$$

$$y = \sqrt{r-|r|} \Rightarrow r-|r| > 0$$

$$|r| < r \Rightarrow r < 0$$

$$D_f = (-\infty, 0)$$

$$y = \frac{1}{\sqrt{-m|m|}} \Rightarrow -m|m| > 0$$

$$D_f = \emptyset$$

$$y = \frac{1}{m|m|} \Rightarrow m|m| > 0$$

$$D_f = (-\infty, 0) \cup (0, +\infty)$$

$$y = \sqrt{\left[m - \frac{1}{c}\right] \left[-m + \frac{1}{c}\right]} \Rightarrow$$

$$\left[m - \frac{1}{c}\right] + \left[-m + \frac{1}{c}\right] > 0$$

$$\Rightarrow m - \frac{1}{c} \in \mathbb{Z}$$

$$D_f = \left\{ m \mid m = k + \frac{1}{c}, k \in \mathbb{Z} \right\}$$

$$y = \sqrt{\left[m - \frac{1}{c}\right] \left[m + \frac{1}{c}\right]} \Rightarrow$$

$$\left[m - \frac{1}{c}\right] + \left[m + \frac{1}{c}\right] > 0$$

$$\left[m - \frac{1}{c}\right] > 0 \Rightarrow m > \frac{1}{c}$$

$$D_f = \left[\frac{1}{c}, +\infty \right)$$

$$y = \frac{\cot m + 1}{\tan m + 1} \Rightarrow \tan m + 1 \neq 0$$

$$\begin{cases} \tan m \neq -1 & m \neq \frac{3\pi}{4}, \frac{7\pi}{4} \\ \cos m \neq 0 & m \neq k\pi - \frac{\pi}{2} \end{cases}$$

$$D_f = \mathbb{R} - \left\{ k\pi - \frac{\pi}{2}, \frac{3\pi}{4}, \frac{7\pi}{4} \right\}$$

$$y = \frac{1}{\sqrt{\sin^2 m - 1}} \Rightarrow \sin^2 m - 1 > 0$$

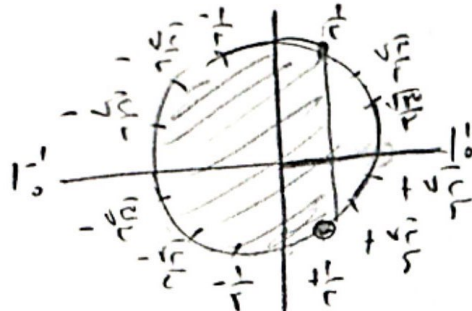
$$\sin^2 m > 1$$

$$D_f = \emptyset$$

$$y = \sqrt{1 - r \cos n}$$

$$1 - r \cos n \geq 0 \quad | \cos n \leq \frac{1}{r}$$

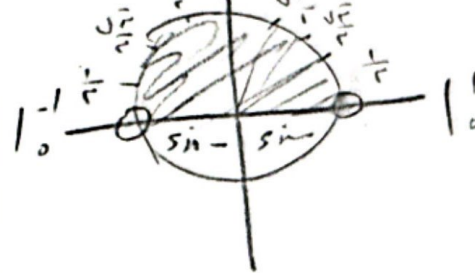
$$\cos n \leq \frac{1}{r}$$



$$\varphi \in \left[r\pi + \frac{\pi}{2}, r\pi + \frac{3\pi}{2} \right]$$

$$y = \sqrt{r \sin n - 1} \Rightarrow \quad (c) \quad$$

$$r \sin n - 1 \geq 0 \quad \sin n \geq \frac{1}{r} \quad \text{or } \omega$$



~~$$\varphi \in (r\pi, (r+1)\pi)$$~~

$$(1, \omega)$$