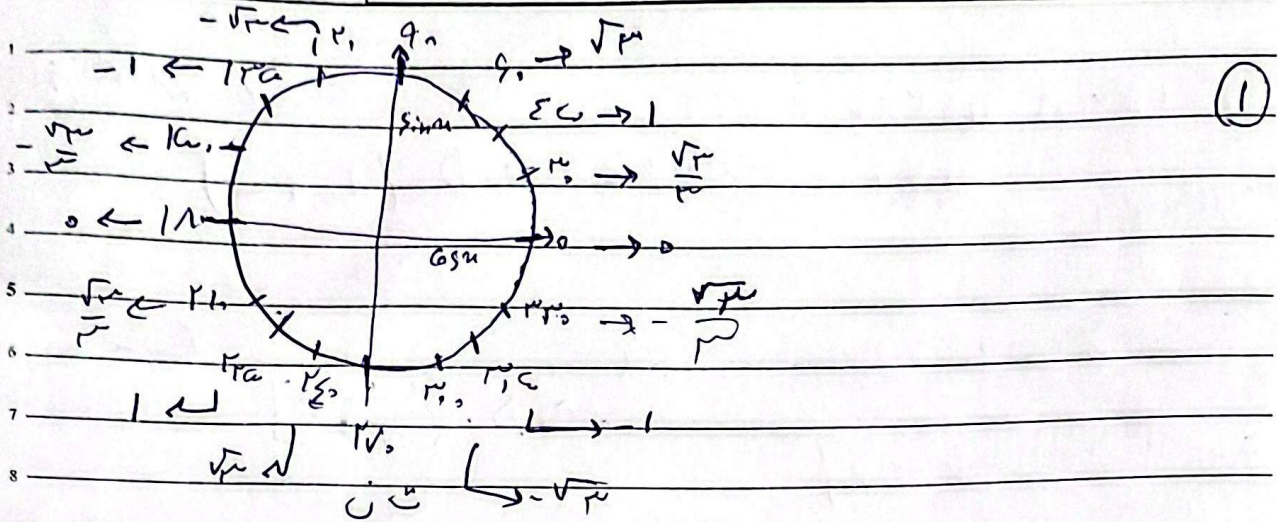




$$\frac{1}{r} - \frac{1}{r} = \frac{a}{r} = -\frac{1}{r} \quad (الف)$$

$$1 + \frac{\sqrt{r}}{r} + \frac{\sqrt{r}}{r} + \frac{r\sqrt{r}}{r} = \frac{a\sqrt{r}}{r}$$

$$1 + \frac{\sqrt{r}}{r} + \frac{\sqrt{r}}{r} + \frac{r\sqrt{r}}{r} = \frac{\sqrt{r}}{r} + \sqrt{r} \quad (ب)$$

$$\cos \theta + \sin \left(\frac{\pi}{2} \right) = 1 + 1 = 2 \quad (ج)$$

$$n \rightarrow a \rightarrow a^r + \varepsilon a = r^2 a + r$$

$$a^r + a - r = 0 \rightarrow a \left[\frac{1}{r} + 1 - \frac{1}{r} \right] \quad f(1) = 0 \quad (د)$$

$$\left[\begin{array}{l} n+1 \geq r \rightarrow n+1 \geq r \rightarrow n \geq r-1 \\ n+1 \leq r \rightarrow n \leq r-1 \end{array} \right] \xrightarrow{n=-r} \left[\begin{array}{l} n-b = a-\varepsilon \rightarrow a+b = r-\varepsilon \\ n-b = a-\varepsilon \rightarrow a+b = r-\varepsilon \end{array} \right] \quad (ه)$$

$$m^2(m-\varepsilon) \rightarrow D = \mathbb{R} - \{ \varepsilon, 0 \} \quad (و)$$

$$(m^2+1)(r^2+\varepsilon) \rightarrow \{r-\varepsilon-1\} \quad (ز)$$



$$n^2 - 1 > 0 \Rightarrow n - 1 > 0 \Rightarrow n > 1$$

(9) الف

$$n \geq 1 \vee n \leq -1 \wedge n > 1 \Rightarrow n \geq 1 \Rightarrow D = [1, +\infty)$$

$$9 - 4n > 0 \Rightarrow 4 < 4n \Rightarrow n > 1$$

$$\Rightarrow D = \left(\frac{1}{4}, +\infty \right)$$

$$9 - 4n > 0 \Rightarrow n > \frac{1}{4}$$

$$9 - 4n > 0 \Rightarrow n < \frac{9}{4} \Rightarrow \frac{9}{4} = \frac{b}{a} = 1 \Rightarrow a = 1, b = 9 \Rightarrow \frac{1}{4}$$

$$n^2 - 4n > 0 \Rightarrow n > 4 \Rightarrow D = [4, +\infty) \cup (-\infty, -4]$$

$$D = [4, +\infty) \cup (-\infty, -4]$$

$$x = 4 \Rightarrow n = 4$$

$$x = -4 \Rightarrow n = -4$$

$$\frac{n^2 - 4n + 4}{n^2 + n} = \frac{(n-2)^2}{n(n+1)}$$

$$\frac{-n^2}{n^2 + n} = \frac{-n}{n+1}$$

$$D = [2, +\infty) \cup [1, 2] \cup [-2, -1] \cup (-\infty, -2]$$

$$1. [n] - \varepsilon \rightarrow [n] \geq 1 \rightarrow n \geq 1 \quad (الف) 9$$

$$D = [1, +\infty)$$

$$2. [n] - \omega \rightarrow [n] \geq \frac{\omega}{1} \rightarrow n \geq 1 \quad (ب)$$

$$D = [1, +\infty)$$

$$3. \frac{n+1}{|n-1|} \geq 1 \rightarrow \frac{n+1}{n-1} \geq 1 \rightarrow n+1 \geq n-1 \rightarrow 2 \geq -2 \rightarrow \text{always true}$$

$$D = [-1, 1] - \{1\}$$

$$4. [n] - \varepsilon \rightarrow [n] \geq \varepsilon \rightarrow n \geq \varepsilon$$

$$A \Rightarrow \emptyset \Rightarrow D = \emptyset$$

$$5. [n] \rightarrow n \in \mathbb{R}$$