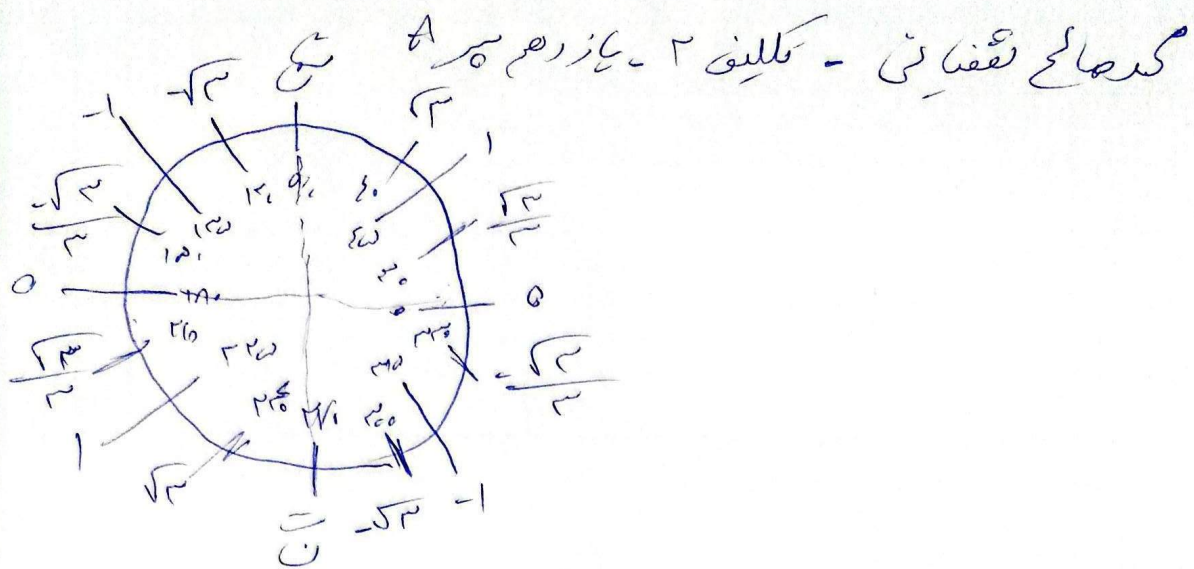




$$\frac{1}{2} - 1 - 2 = \boxed{-\frac{3}{2}}$$

۲ - ۱

$$+\frac{\sqrt{2}}{2} + \frac{\sqrt{2}}{2} + \frac{2\sqrt{2}}{2} = \boxed{\frac{4\sqrt{2}}{2}}$$

$$\frac{-\sqrt{2}}{2} + \frac{2\sqrt{2}}{2} + \frac{2\sqrt{2}}{2} = \boxed{\frac{3\sqrt{2}}{2}}$$

$$1 + 1 = \boxed{2}$$

۱

$$a^2 + 8a = 2a + 2$$

$$a^2 + a - 2 = 0 \rightarrow a = \frac{-1 \pm \sqrt{1+8}}{2} \rightarrow \boxed{f(1) = 0}$$

۳ -

$$a - 5 = 11 - b \rightarrow \boxed{a + b = 16}$$

۴ -

$$a) \quad n^2 = 8n^2 \rightarrow n = 0 \neq 8 \rightarrow \mathcal{P}_f = \boxed{\mathbb{R} - \{0, 8\}}$$

۵ -

۶ -

$$\boxed{\mathbb{R} - \{8\}} \leftarrow \text{با آن حس}$$

سوال ۱)  $n \geq \frac{a}{3} \cup \frac{b}{2} \geq n$

$\rightarrow \frac{a}{3} = \frac{b}{2} \geq 2 \rightarrow a = 12 \text{ و } b = 6$

$\rightarrow \frac{b}{a} = \frac{6}{12} = \frac{1}{2}$

سوال ۶)

الف)  $\begin{array}{c} -1 & 1 & 2 \\ \hline - & + & - & + \end{array} \rightarrow [-1, 1] \cup [2, +\infty)$

ب)  $2 \geq n \cup n \geq \frac{1}{2} - \{\frac{1}{2}\}$

$\rightarrow [\frac{1}{2}, 2]$

الف)  $\begin{array}{c} -3 & -2 & 2 & 3 \\ \hline + & - & - & + & + \end{array}$

سوال ۸)  $\rightarrow D_f = (-\infty, -3) \cup (2, +\infty) - \{2\}$

ب)  $\begin{array}{c} -3 & -2 & -1 & 1 & 2 & 3 \\ \hline + & - & + & - & + & - & + \end{array}$

$\rightarrow D_f = (-\infty, -3) \cup [2, 4) \cup [1, 2] \cup [3, +\infty)$

سوال ۱۰) الف)  $\begin{array}{c} -1 & 3 \\ \hline - & + & - \end{array}$

$\rightarrow D_f = [-1, 3] - \{3\}$

سوال ۹) الف)  $D_f = [2, +\infty)$

ب)  $D_f = [3, +\infty)$

$[3, +\infty) \cup (-\infty, 3) = D_f = \text{همه } \phi$

ب)