

✓ $x^r - t x \rightarrow x(x-t) > 0 \quad D_f = \mathbb{R} - \{0, t\}$

✓ $\Delta < 0 \quad D_f = \mathbb{R}$ ✓ $\Delta > 0 \quad D_f = \mathbb{R}$

✓ $x^r(x^r - t) \rightarrow x^r(x+r)(x-r) \quad D_f = \mathbb{R} - \{0, r, -r\}$

(٢) سوال

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(٣) سوال

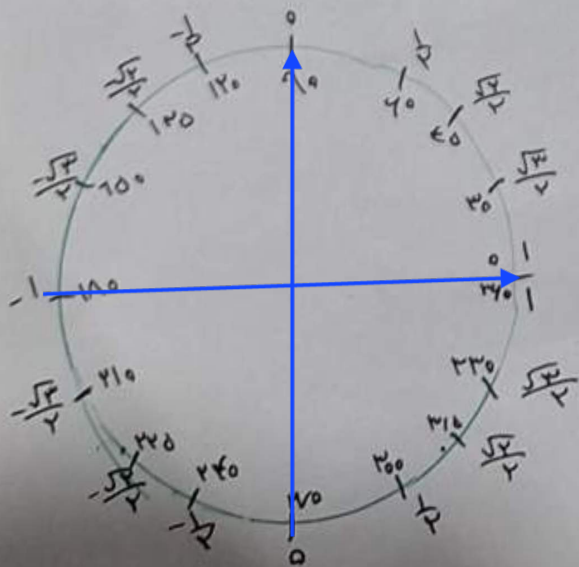
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✓ $y - x \geq 0 \quad x \leq y, \quad \begin{matrix} x-r \geq 0 \\ x \geq r \end{matrix} \rightarrow r \leq x \leq y \quad D_f = [r, y]$

✓ $x^r + 1 \rightarrow x^r = -1 \quad D_f = \mathbb{R}$

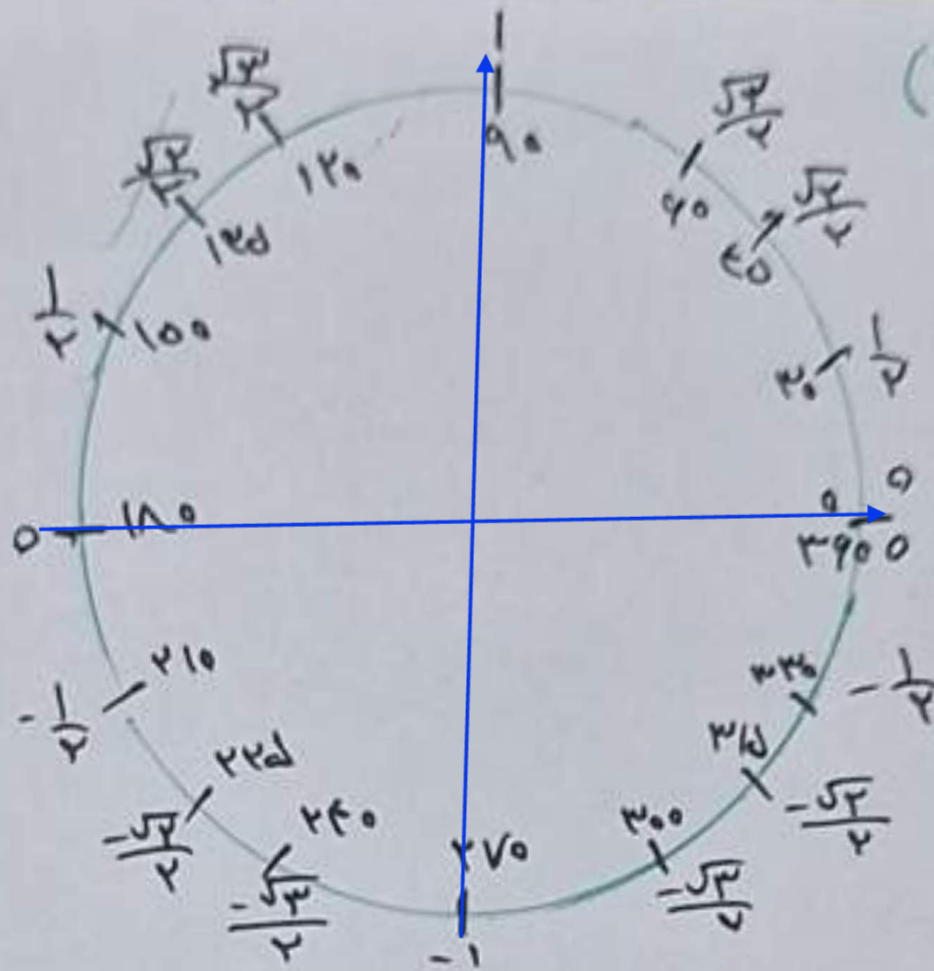
✓ $x-r \geq 0 \rightarrow x \geq r, \quad x \neq r \quad D_f = [r, +\infty) - \{r\}$

✓ $|x| = x^r \rightarrow x \neq 0 \quad D_f = \mathbb{R} - \{0\}$



(١) سوال

١, ٧, ٦



1.175

مسئله (10)

2

الف) $\frac{2\pi}{3} \rightarrow -\frac{1}{2} \rightarrow \frac{1}{2}$

$\sin u = \frac{1}{2} \rightarrow \frac{\pi}{6}, \frac{5\pi}{6}$ ✓

ب) $\frac{11\pi}{4} \rightarrow \frac{\sqrt{3}}{2} \rightarrow -\frac{\sqrt{3}}{2}$

$\sin u = -\frac{\sqrt{3}}{2} \rightarrow \frac{4\pi}{3}, \frac{5\pi}{3}$ ✓