

۱۳، ۲۵

$$ع) y = \frac{n+r}{n^r+n+r} = \frac{n^r+n+r}{n^r+n+r} \neq 0 \quad n^r+r=n \quad n^r+n+r=0 \quad R=1R$$

$$-1 + \frac{\sqrt{1-12}}{2} =$$

$$د) \frac{n+r}{n^r-n+r} = \frac{n^r-n+r}{n^r-n+r} \neq 0 \quad n^r-n+r=0 \quad n \neq \pm 1 \quad R_f = 1R - \left(\frac{1}{\pm 1}\right)$$

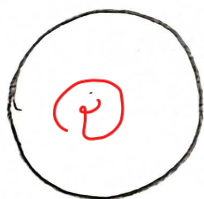
۲۵؟

الف) $y = \sqrt{9-n} + \sqrt{n-2} \Rightarrow y-n \geq 0 \quad n-2 \geq 0$
 $2 \leq n \leq 9 \quad n \geq 2 \quad D_f = [2, 9]$

ب) $y = \frac{n+1}{n^2+1} \Rightarrow \frac{n^2+1}{n^2+1} \neq 0 \quad D_f = R$

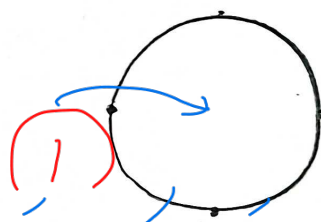
ج) $y = \frac{\sqrt{n-2}}{n-4} \quad n-2 \geq 0 \quad n-4 \neq 0$
 $n \geq 2 \quad n \neq 4 \quad D_f = [2, 4) \cup (4, +\infty)$

د) $y = \frac{2n+3}{|n|+n^2} \Rightarrow \frac{|n|+n^2}{|n|+n^2} \neq 0 \quad n \neq 0 \quad D_f = \mathbb{R} - 0$



د سوال مجزا

در سوال ۱



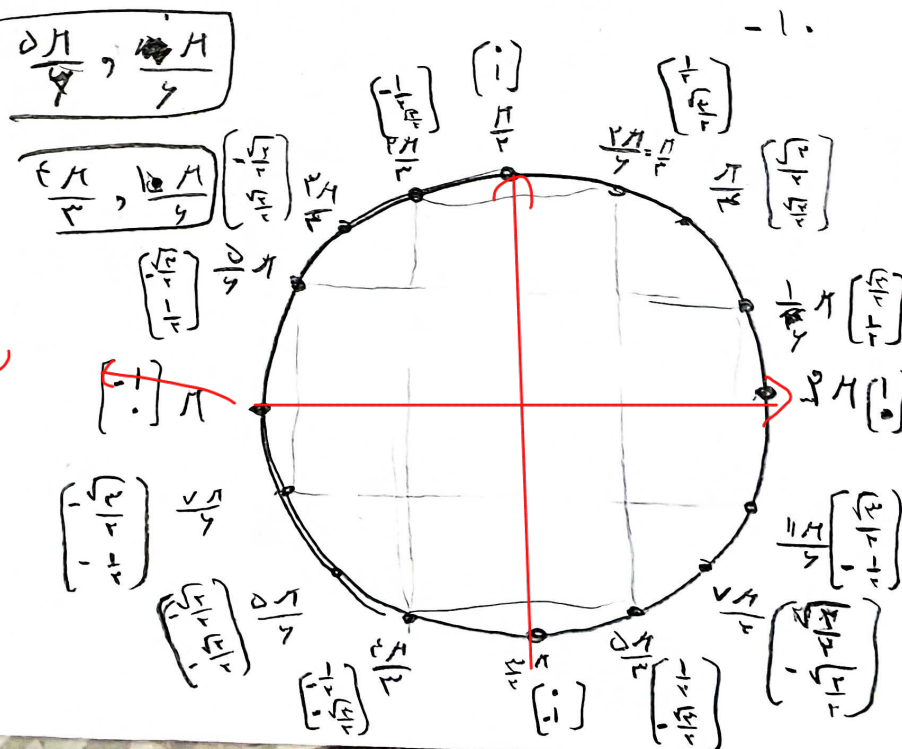
چون یک دایره لیسیدی یک غره سوری بود

الف) $12i = -\frac{1}{4} \Rightarrow \frac{1}{4}$

۲۵

ب) $22i = \sqrt{\frac{3}{2}} \Rightarrow -\frac{\sqrt{3}}{2}$

رسم شده‌ها



(۱) باید بررسی بازای یک n یک n داریم:

الف) $y^2 - n = 2m^2 \Rightarrow y^2 = 2m^2 + n \quad y^2 = n(2m+1)$ تابع هست

ب) $|y| + n^2 = n+1$ ^{مشکوک بنظر} $\pm y$ تابع نیست.
 $\pm y \neq n+1$ $n=1 \rightarrow |y|=3 \rightarrow y=\pm 3$

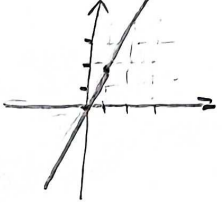
ج) $\sqrt{n-4} + |y-2| = 0$ $n=4 \quad y=2$ (۱) تابع هست.

د) $n = \cos y$  ^{تابع} نسبت

مثال خاص بنظر

$n=0 \rightarrow \cos y = 0 \rightarrow y = \frac{\pi}{2} - \frac{2\pi}{2}$

الف)  $f(m)=1$ (۲) ✓

ب)  $f(m)=2m$

(۲)

ان) $y = am + b$ $y = m$ $am + b = m$

ب) 

$1 = 2 + \frac{2a+b}{-2}$ (۱) $-2a$
 $b = -4a$ $-6 = 4a$

$1 + 2(0) = 1$

$-2a = 3 \quad a = -1.5$
 $\frac{-b}{2a} = \frac{6}{-3} = -2$ $\frac{b^2 - 4ac}{4a} = \frac{36 - 4(-1.5)(1)}{4(-1.5)} = \frac{36 + 6}{-6} = -8$

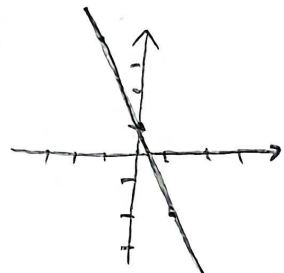
$b^2 - 4ac = 1.15$

(۳)

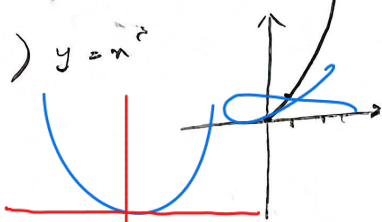
ان) $y = 2m + 1$



ب) $y = -2m + 1$



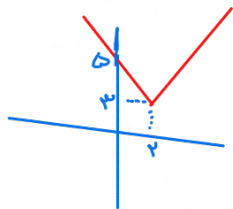
ج) $y = n^2$



د) $y = n^2$



الف) 



ب) 



ان) $y = \frac{n+4}{n^2-4m}$

$n(n-4) \neq 0$
 $n^2 - 4m \neq 0$

$D_f = (\mathbb{R} - \{4\}) \cup \{0, 4\}$

(۴)

ب) $y = \frac{n+4}{n^2-4m+12m} \Rightarrow \frac{n+4}{(n-4)^2+n} = (n-4)^2+n=0$
 $(n-4)^2 = -n$

$D_f = ?$

(۱, ۲, ۵)

$n^2 - 4m + 12 = -n$
 $n^2 + 12 = -4m$

$$as = \frac{-b}{ra} = \frac{-a}{r} = r \rightarrow a = -r$$

$$bs = 1 \rightarrow (r)r - r(r) + b = 1 \rightarrow b = 1$$

$$a + rb = -r + r(1) = 0$$

- 12