

10

(الف)

$$-\cos \frac{2\pi}{\mu} = ? \quad \frac{1}{\mu} \sin \frac{\pi}{\mu} \Rightarrow \frac{\pi}{\mu}, \frac{5\pi}{\mu}$$

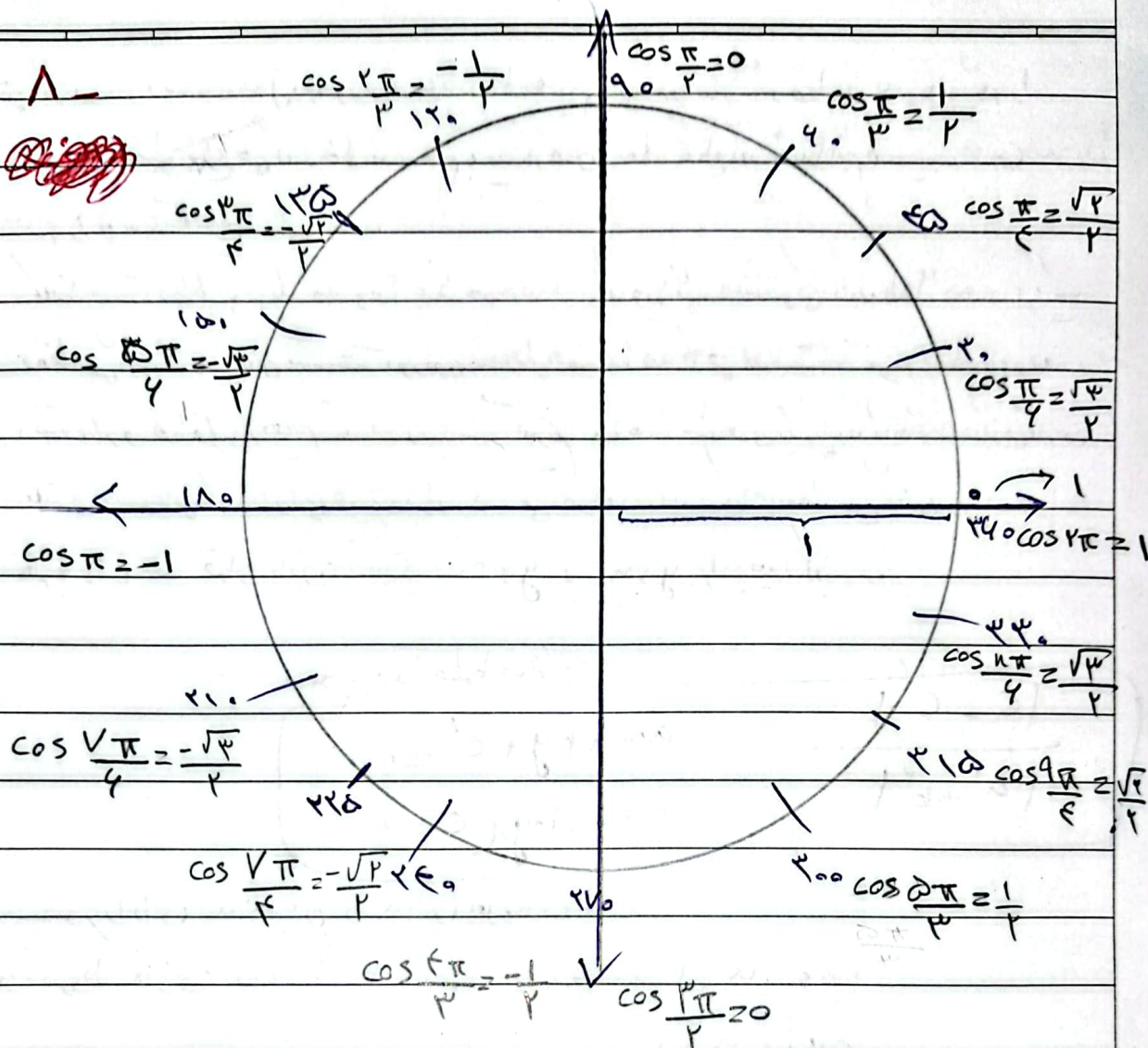
μ_0 μ_0, μ_0

(ب)

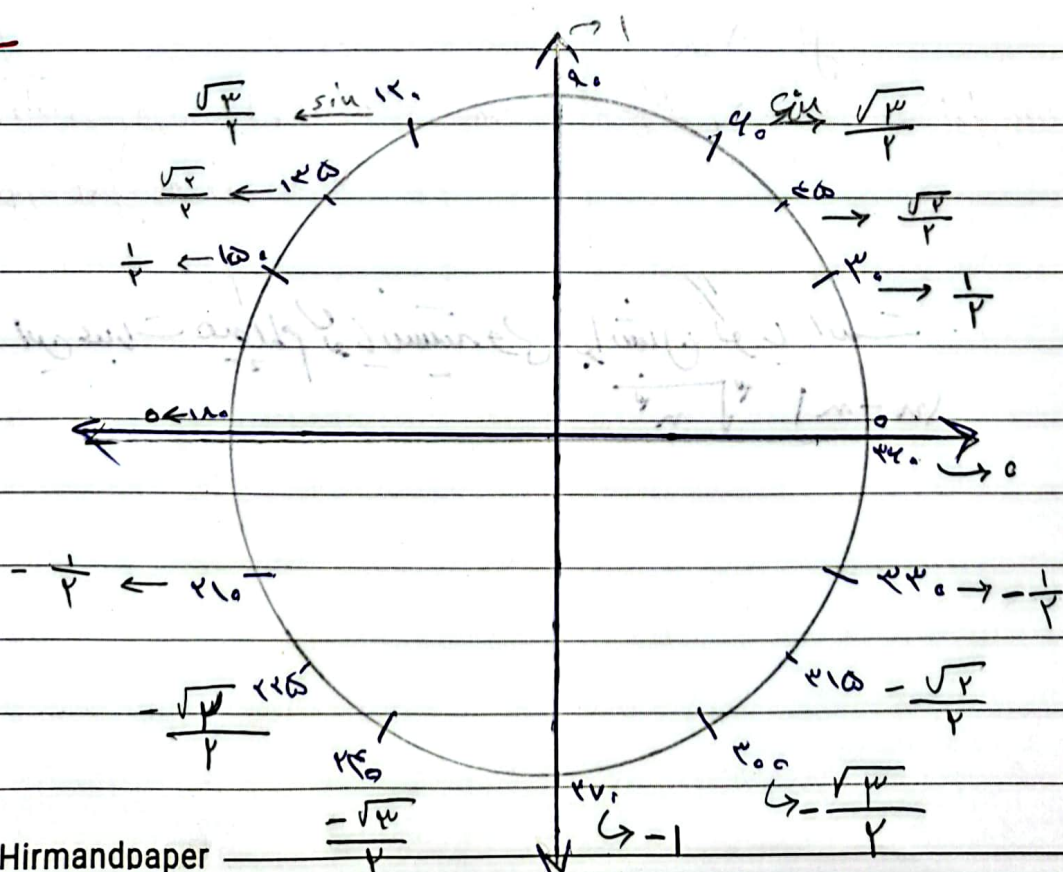
$$-\cos \frac{11\pi}{4} = -\frac{\sqrt{2}}{2} \Rightarrow \frac{7\pi}{4}, \frac{5\pi}{4}$$

μ_0, μ_0

1-



9-



$$4- \text{اف}) y = \frac{n+4}{n^2-4n} = \frac{n+4}{n(n-4)}$$

$$\frac{-4}{-} \quad \frac{0}{+} \quad \frac{4}{-} \quad \frac{+}{+}$$

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

$$1) y = \frac{n+4}{n^2-7n+14}$$

Δ متغير مستقيم

$$D_f = \mathbb{R}$$

$$2) y = \frac{n+4}{n^2+n+4}$$

$$3) y = \frac{n+4}{n^2-4n^2}$$

$$D_f = \mathbb{R}$$

$$D_f = \mathbb{R} - \{-2, 0, 2\}$$

$$\frac{-4}{-} \quad \frac{-2}{+} \quad \frac{0}{-} \quad \frac{2}{+}$$

$$V- \text{اف}) y = \sqrt{4-n} + \sqrt{n-2}$$

$$4-n \geq 0$$

$$n \leq 4$$

$$n-2 \geq 0$$

$$n \geq 2$$

$$D_f = [2, 4]$$

$$ب) y = \frac{2n+1}{n^2+1}$$

ریشه ندارد

$$D_f = \mathbb{R}$$

$$2) y = \frac{\sqrt{n-2}}{n-4}$$

$$\frac{1}{n-4} = \frac{1}{n-4}$$

$$n-2 \geq 0$$

$$n \geq 2$$

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

$$3) y = \frac{2n+2}{|n|+n^2}$$

ریشه ندارد

$$D_f = \mathbb{R}$$

۳- هر ضمیمه تراز

الف) $y^3 - m = 2m^2$

$y_1^3 = 2m_1^2 + m_1$
 $y_2^3 = 2m_2^2 + m_2$
 $\Rightarrow y_1^3 = y_2^3 \Rightarrow y_1 = y_2$ تابع مستقیم

ب) $|y| + m^2 = m + 3$

$\Rightarrow |y| = 3 \Rightarrow y = \pm 3$ تابع نیست

ج) $\sqrt{m-4} + |y-2| = 0$

$m-4=0 \quad y-2=0$
 $m=4 \quad y=2$

د) $m = \cos y$

$\Rightarrow \cos y = 0$ نقاط $\frac{\pi}{2}, \frac{3\pi}{2}$ تابع نیست

الف) $y = 1 \Rightarrow$

ب) $a=2$ دارای $\frac{1}{2}$
 $y = am + b \rightarrow y = 2m$

۳- مقدار $a+b$

الف) $y = am + b \rightarrow$ تابع مستقیم
 $y = m$

$a=1 \quad b=0 \quad a+b = \frac{a_1}{b_2} \rightarrow 1$

ب) $y = m^2 + am + b$

$\min \left| \frac{y}{m} \right| \Rightarrow \begin{cases} -\frac{b}{a} = 2 \rightarrow ca + b = 0 \\ 1 = f + 2a + b \rightarrow 2a + b = -3 \end{cases}$

$2a = 3$

$a = \frac{3}{2}$

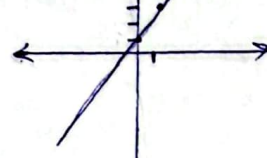
$4 + b = 0$

$b = -4$

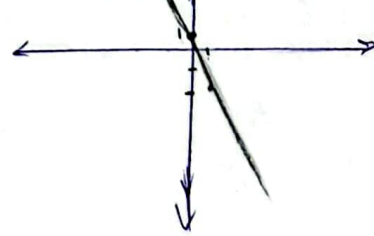
$a+b = \frac{a_1}{b_2} \rightarrow \frac{1.5}{-4} = -1.5$

۴-

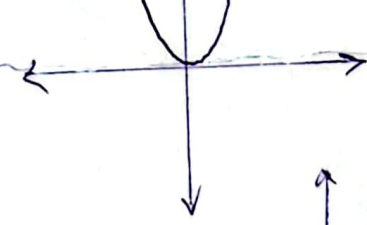
الف) $y = 2m + 1$



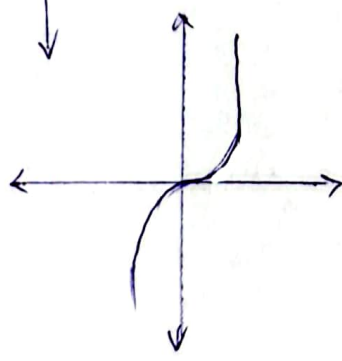
ب) $y = -3m + 1$



ج) $y = m^2$

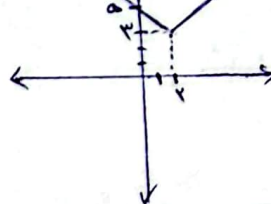


د) $y = m^5$



۵-

الف) $y = |m-2| + 3$



ب) $y = -|m+3| + 1$

