

در مدار جابجانه

$A=1 \quad A \times B - B = -1$
 $B=2$
 $\text{حاصل} = B(A-B)$

$A=1 \Rightarrow -6$

$A=2 \Rightarrow 0$

$A=2 \Rightarrow -6$

$A=2 \Rightarrow 2$

$A=2 \Rightarrow 0$

$A \times B - B \times B = \{(1,2)(1,3)\}$

الف) $(r, m^r) = (r, m+r) \Rightarrow m^r = m+r \Rightarrow m^r m - r = 0$
 $(m-r)(m+r) =$

$m_1 = r \times \text{تغییر}$
 $m_1 = -1$

ب) $(r, m^r) = (r, m+r) \Rightarrow m_1 = r$
 $m_1 = -1$

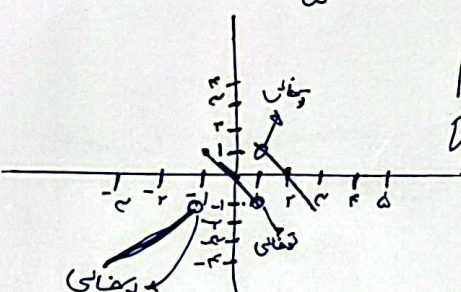
در این صورت مقدار m تابع r

$x=1, x^2-1=0 \Rightarrow x=1$
 $x=2 \Rightarrow x^2=4$
 $x^2+b=1$

$a_1, b_2 \Rightarrow b = -a = -1$

$a_2=1, b_2=1 \Rightarrow a \times b = 1$

الف) $x \neq y \Rightarrow x^2 - y^2 = x - y$
 $\omega x = y \Rightarrow x = \frac{y}{\omega}$



$R_f = [1, -\infty)$

$D_f = R - \{1\}$

الف) $x^2 + x^2 = 0$
 $x^2 = -x^2 - 1$

$x^2 = -x^2 - 1$
 $x^2 = -x^2 - 1$

$x^2 = x^2 \Rightarrow y_1 = y_2 \Rightarrow$ تابع

$(x-1)^2 + (2y-3)^2 = 0 \rightarrow (1, \frac{3}{2})$ تابع

ب) $x^2 + y^2 - 2x - 12y + 10 = 0$

$x^2 - 2x + y^2 - 12y = -10$

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$x^2 - 2x + y^2 - 12y = -10 \Rightarrow \sqrt{x^2 - 2x} \neq \sqrt{y^2 - 12y}$

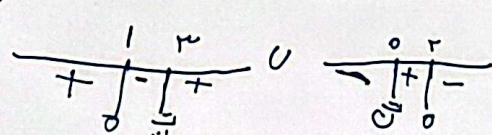
الف) $x \sin y = y \sin x$ if $x = \frac{\pi}{2} \Rightarrow y = \pi, 2\pi \Rightarrow$ تابع

ب) $\sqrt{x} + \sqrt{y} \geq 2$

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$\frac{x}{y} + 2 + \frac{y}{x} = 4 \Rightarrow \frac{x}{y} + \frac{y}{x} = 2$

الف) $\frac{x-1}{x^2} \geq 0$ و $\frac{x^2-x}{x} \geq 0$



$D_f = [0, 1]$

ب) $\sqrt{y-1} = \sqrt{x} - \sqrt{y} \geq 0 \rightarrow y \leq x$
 $D_f = [0, +\infty)$

$D = [0, 3]$

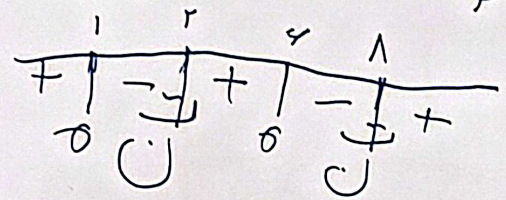
4

الف) $x^2 - \sqrt{x} + 4 \geq 0$
 $(x-4)(x-1) \geq 0$

$x^2 - 10x + 16 \geq 0$
 $-9x + 16 \geq 0$
 $x \leq \frac{16}{9}$ II

I $\cup$ II $\Rightarrow x \leq 1$
 $D_f = (-\infty, 1]$ ✓

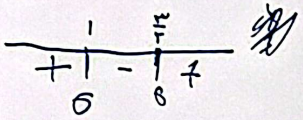
ب) $\frac{x^2 - \sqrt{x} + 4}{x^2 - 10x + 16} \geq 0$



$D_f = (-\infty, 0) \cup [1, 2) \cup (4, 16]$
 $(1, 2]$ ✓

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الف) $2x^2 - 5x + 2 \geq 0$ و $x^2 - \sqrt{x} + 5 > 0$



$\frac{1}{x^2 - 5x + 2} \geq 0 \Rightarrow D_f = (-\infty, 0) \cup (2, +\infty)$

0, $\sqrt{5}$

ب) $\frac{2x^2 - 5x + 2}{x^2 - \sqrt{x} + 5} \geq 0$

