

$$A=1 \quad A \times B - \beta = -1$$

$$\beta = 2$$

$$\text{محاسبه} = \beta(A - \beta)$$

$$A=1 \Rightarrow -6$$

$$A=2 \Rightarrow 0$$

$$A=2 \Rightarrow -6$$

$$A=2 \Rightarrow 2$$

$$A=2 \Rightarrow 0$$

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

$$(m-r)(m+r) =$$

$$m_1 = r \times \text{تعداد} \quad m = -1$$

$$m_1 = -1$$

$$(r, m^r) = (r, m+r) \Rightarrow m_1 = r \quad \text{تعداد}$$

$$m_1 = -1$$

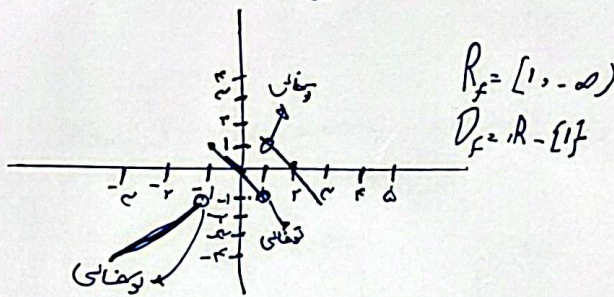
$$x=1, x^2-1=0 \Rightarrow x=1$$

$$x=2 \Rightarrow x^2=4, \begin{cases} ax+b=1 \\ a_1, b_2=0 \end{cases}$$

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

$$x=2 \Rightarrow x^2-4=0$$

$$x=2 \Rightarrow x^2=4$$



$$x^2 + x^2 = 1 \Rightarrow x^2 = -x^2 - 1$$

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

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

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

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

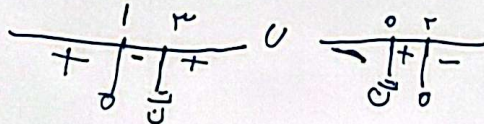
$$x \sin y = y \sin x \quad \text{if } x = \frac{\pi}{2} \Rightarrow y = \pi, 2\pi \Rightarrow \text{تعداد}$$

$$\sqrt{x} + \sqrt{y} \geq 2$$

$$\frac{x}{y} + 1 + \frac{y}{x} = 2 \Rightarrow \frac{x}{y} + \frac{y}{x} = 1$$

$$\frac{x}{y} + \frac{y}{x} = 1$$

$$\frac{x-1}{x} \geq 0 \quad \text{و} \quad \frac{2-x}{x} \geq 0$$



$$D_f = [0, 1]$$

$$\sqrt{y-1} = \sqrt{x} - \sqrt{y}$$

$$D_f = [0, +\infty) \quad \text{و} \quad x \geq 0, y \geq 1$$

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$$I) x^2 - \sqrt{x+4} \geq 0 \vee (x-9)(x-1) \geq 0$$

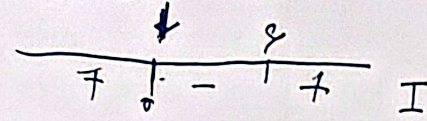
$$x^2 - 10x + 16 \geq 0$$

$$-9x + 16 \geq 0$$

$$x \leq \frac{16}{9} \quad II$$

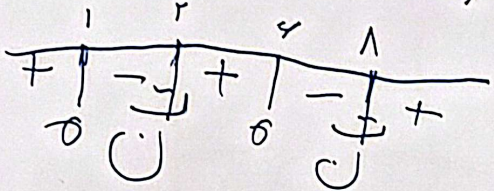
$$I \vee II \Rightarrow x \leq 1$$

$$D_F = (-\infty, 1]$$



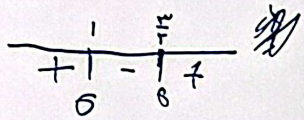
$$II) \frac{x^2 - \sqrt{x+4}}{x^2 - 10x + 16} \geq 0$$

$$D_F = (1, +\infty) \cup [4, 9) \cup (-\infty, 1]$$



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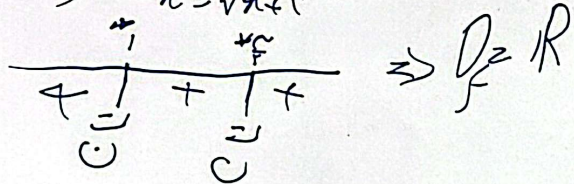
$$2x^2 - 5x + 4 \geq 0 \vee x^2 - \sqrt{x+5} \geq 0$$



$$\Rightarrow D_F = (-\infty, +\infty) \cup (-\infty, 1)$$

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$$III) \frac{2x^2 - 5x + 4}{x^2 - \sqrt{x+5}} \geq 0$$



$$\Rightarrow D_F = \mathbb{R}$$