

بارزهم نصیر

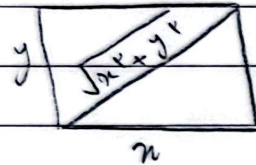
نصیر

19, 15

نصیر

$$\frac{x_1}{y} = \frac{\omega}{\varepsilon} \rightarrow x_1 = \frac{\omega}{\varepsilon} y \quad \frac{x_2}{y} = 1 + \sqrt{\omega} \quad (1)$$

$$x_2 = \frac{1 + \sqrt{\omega}}{\varepsilon} y \quad \frac{s_2}{s_1} = \frac{x_2 y}{x_1 y} = \frac{x_2}{x_1} = \frac{(1 + \sqrt{\omega}) \varepsilon}{\frac{\omega}{\varepsilon} y} = \frac{\varepsilon^2 (1 + \sqrt{\omega})}{\omega y} \quad (5)$$



$$\frac{\sqrt{x^2 + y^2}}{x} = 1 + \sqrt{\omega} \quad (1 + \sqrt{\omega}) x = \sqrt{x^2 + y^2} \quad (2)$$

$$(1 + \sqrt{\omega}) x^2 = \sqrt{x^2 + y^2} \quad (1 + \sqrt{\omega})^2 x^2 = x^2 + y^2 \quad (1 + \sqrt{\omega})^2 x^2 - x^2 = y^2$$

$$x^2 (1 + \sqrt{\omega})^2 - x^2 = y^2 \quad x^2 (1 + \sqrt{\omega})^2 - x^2 = y^2$$

$$x^2 (1 + \sqrt{\omega})^2 - x^2 = y^2 \quad x^2 (1 + \sqrt{\omega})^2 - x^2 = y^2$$

$$x^2 (1 + \sqrt{\omega})^2 - x^2 = y^2 \quad x^2 (1 + \sqrt{\omega})^2 - x^2 = y^2$$

$$\sqrt{1 + \sqrt{\omega}} + \sqrt{1 - \sqrt{\omega}} = \frac{1}{\varepsilon} \quad \sqrt{1 + \sqrt{\omega}} + \sqrt{1 - \sqrt{\omega}} = \frac{1}{\varepsilon}$$

$$\sqrt{1 + \sqrt{\omega}} + \sqrt{1 - \sqrt{\omega}} = \frac{1}{\varepsilon} \quad \sqrt{1 + \sqrt{\omega}} + \sqrt{1 - \sqrt{\omega}} = \frac{1}{\varepsilon}$$

$$\sqrt{1 + \sqrt{\omega}} + \sqrt{1 - \sqrt{\omega}} = \frac{1}{\varepsilon} \quad \sqrt{1 + \sqrt{\omega}} + \sqrt{1 - \sqrt{\omega}} = \frac{1}{\varepsilon}$$

$$\sqrt{1 + \sqrt{\omega}} + \sqrt{1 - \sqrt{\omega}} = \frac{1}{\varepsilon} \quad \sqrt{1 + \sqrt{\omega}} + \sqrt{1 - \sqrt{\omega}} = \frac{1}{\varepsilon}$$

$$\frac{a+1}{a} = \frac{9}{1}$$

s.a.m

$$\frac{\sqrt{x+1}}{\sqrt{x-1}+3} - \frac{\sqrt{x+1}}{3-\sqrt{x-1}} = x-1$$

(4)

1, 150

$$\frac{\sqrt{x+1} (3 - \sqrt{x-1} - \sqrt{x-1} - 3)}{x-1-9} = \frac{-p\sqrt{x^2-1}}{x-10} = \frac{x-1}{\sqrt{x-1}}$$

$$-2\sqrt{(x-1)^2(x+1)} = (x-1)(x-10)$$

$$-2(x-1)\sqrt{x+1} = (x-1)(x-10) \quad \text{ }^2 \quad x^2 - 10x + 100 =$$

$$x^2 - 2x + 94 = 0 \rightarrow \Delta = 272 - 384 < 0 \quad \text{ }^2 \quad x + 2$$

پس ۱۲-۴۲
 $P = 94$ و $S = 24$
 و P و S مثبت
 و P و S مثبت

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

(5) فاصله جواب مثبت

$$\frac{2-\sqrt{2-x}-\sqrt{2-x}-2}{2-2+x} = \frac{2-x}{2\sqrt{2-x}} \quad (-10)(2-x) = (2-x)(x+2)$$

$$x+2 = -10 \quad x = -12$$

$$\frac{1}{x^2} + \frac{1}{(1-x)^2} = \frac{140}{9} \quad \frac{(1-x)^2 + x^2}{x^2(1-x)^2} = \frac{140}{9} \quad x^2 - x = t \quad (4)$$

$$\frac{2x^2 - 2x + 1}{(x^2 - x)^2} = \frac{2(x^2 - x) + 1}{(x^2 - x)^2} = \frac{140}{9} \quad \frac{2t + 1}{t^2} = \frac{140}{9}$$

$$140t^2 - 11t - 9 = 0 \quad t = \frac{11 \pm \sqrt{4014}}{280} = \sqrt{14}$$

$$\left\{ \begin{array}{l} \frac{10}{10} \rightarrow x^2 - x - \frac{1}{10} = 0 \\ -\frac{10}{14} \end{array} \right. \quad \text{sam} \quad x^2 - x + \frac{1}{14} = 0$$

$$\sqrt{x + \sqrt{-x^2 + 4x + 4}} = \sqrt{x^2 + \sqrt{-x^2 + 4x + 4}} = x + 2 \quad (5)$$

$$-x(x^2 - 4) + 4(x^2 - 4) = x^2 - 4x + 4 \leq 0$$

$$(x^2 - 4)(x^2 - 4) > 0 \quad \begin{matrix} - & + & - \\ + & - & + \end{matrix} \quad \begin{matrix} x & - & 2 \\ + & - & 2 \end{matrix}$$

$$x \rightarrow \{4\} \quad (x = 2) \quad \text{جواب}$$

$$y = |x + 2| + |x - 1| \quad (A)$$

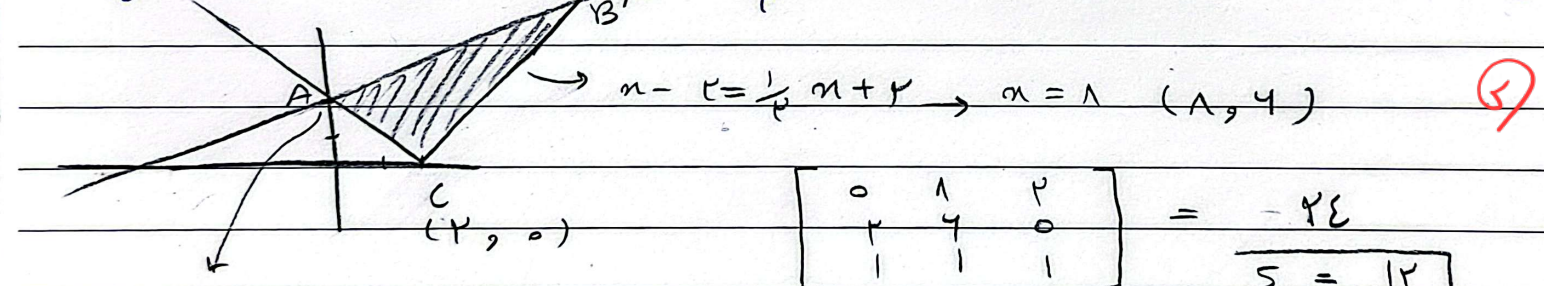
$$xy + x = 1 \rightarrow y = -\frac{1}{x}x + \frac{1}{x} \quad \sqrt{y^2 + x^2} = \sqrt{2}$$

$$x^2 - 1 \rightarrow -\frac{1}{x}x + \frac{1}{x} = -x - 1 \rightarrow -x + 1 = -x - 1 \quad (x = -1) \quad y = 1$$

$$-2 < x < 1 \quad -\frac{1}{x}x + \frac{1}{x} = x \rightarrow x = 1 \quad \text{قاعده}$$

$$x > 1 \rightarrow -\frac{1}{x}x + \frac{1}{x} = x + 1 \quad x + 1 = yx + 1 \quad (x = 1) \quad y = 0$$

$$y = \sqrt{x^2 - 4x + 4} = |x - 2| \quad y = \frac{1}{x}x + 2 \quad (9)$$



$$\text{s.a.m} - x + 2 = \frac{1}{x}x + 2 \rightarrow x = 0 \quad (0, 2)$$

$$\frac{1}{n} + \frac{1}{n+9} = \frac{1}{p_0} \quad (10)$$

$$\frac{n+9+n}{n(n+9)} = \frac{1}{p_0} \quad \frac{p_0 n + 9}{n^2 + 9n} = \frac{1}{p_0}$$

$$p_0 n + 9n = n^2 + 9n$$

$$n^2 - p_0 n - 9n = 0 \quad (n+9)(n-p_0) = 0 \quad \boxed{n = p_0}$$

s.a.m