

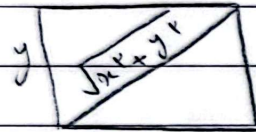
بارش هم در نظر

در نظر

تلف به شماره ۱۸۰

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

$$x_2 = \frac{1 + \sqrt{\omega}}{r} y \quad \frac{s_2}{s_1} = \frac{x_2 y}{x_1 y} = \frac{x_2}{x_1} = \frac{(1 + \sqrt{\omega}) y}{\frac{\omega}{r} y} = \frac{r + r\sqrt{\omega}}{\omega}$$



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

$$\begin{aligned} (1 + \sqrt{\omega}) x^2 &= r^2 (x^2 + y^2) \\ (1 + \sqrt{\omega}) x^2 &= r^2 x^2 + r^2 y^2 \\ (1 + \sqrt{\omega}) x^2 - r^2 x^2 &= r^2 y^2 \\ x^2 (1 + \sqrt{\omega} - r^2) &= r^2 y^2 \\ x^2 (1 - r^2 + \sqrt{\omega}) &= r^2 y^2 \end{aligned}$$

$$\begin{aligned} \sqrt{r^2 a^2 + \varepsilon a} &= r \quad \sqrt{r^2 a^2 + \varepsilon a} = r - r a \quad (3) \\ r^2 a^2 + \varepsilon a &= r^2 - 2 r^2 a + r^2 a^2 \\ a^2 - 14 a + 14 &= 0 \quad (a - r)(a - 14) = 0 \\ a &= \frac{r}{\sqrt{2}} \quad \rightarrow a = r \end{aligned}$$

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

$$\frac{\sqrt{x+1}}{\sqrt{x-1}+p} - \frac{\sqrt{x+1}}{p-\sqrt{x-1}} = x-1 \quad (K)$$

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

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

$$-2(x-1)\sqrt{x+1} = (x-1)(x-1) \quad (x-1)^2 x^2 - p_0 x + 100 =$$

$$x^2 - 2x + 94 = 0 \rightarrow \Delta = 2^2 - 4 \cdot 1 \cdot 94 > 0 \quad x = 1$$

$$p = 94, s = 24 \rightarrow \text{مستبعد}$$

$$\frac{1}{\sqrt{p-x}+r} - \frac{1}{r-\sqrt{p-x}} = \frac{p-x}{2\sqrt{p-x}} \quad \text{فإنه مستبعد}$$

$$\frac{r-\sqrt{p-x}-\sqrt{p-x}-r}{2-\sqrt{p-x}} = \frac{p-x}{2\sqrt{p-x}} \quad (-10)(p-x) = (p-x)(x+r) \\ x+r = -10 \quad x = -12$$

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

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

$$140 t^2 - 11 t - 9 = 0 \quad t = \frac{11 \pm \sqrt{4014}}{280} = \sqrt{14} \quad \left\{ \begin{array}{l} \frac{p}{10} \rightarrow x^2 - x - \frac{p}{10} = 0 \\ -\frac{p}{14} \text{ sam} \\ x^2 - x + \frac{p}{14} = 0 \end{array} \right. \rightarrow s=1$$

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

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

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

$$\cap \rightarrow \{2\} \quad (n=2) \quad \text{جواب}$$

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

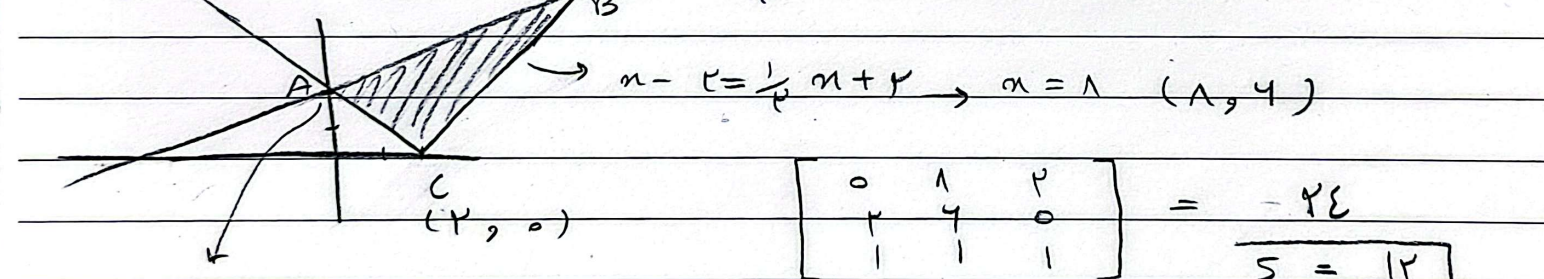
$$xy + x = 1 \rightarrow y = -\frac{1}{x}x + \frac{1}{x} \quad \sqrt{y^2 + x^2} = \sqrt{2}$$

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

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

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

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



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

$$\begin{bmatrix} 0 & 1 & 2 \\ 1 & 4 & 0 \\ 1 & 1 & 1 \end{bmatrix} = -2 \quad \underline{S = 12}$$

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

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

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

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

s.a.m