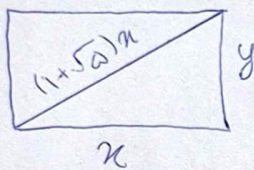


$$\varepsilon \times \omega = 2$$

$$\varepsilon \times \frac{1+\sqrt{5}}{2} = 2 + 2\sqrt{5}$$

$$\varepsilon \times (2+2\sqrt{5}) = 1+2\sqrt{5}$$

$$\frac{A+A\sqrt{5}}{\omega-2} = \frac{2+2\sqrt{5}}{\omega}$$



$$x^2 + y^2 = x^2 + 0 + 2\sqrt{5}n^2$$

$$\frac{y^2}{x^2} = \frac{2\sqrt{5}n^2}{x^2} \quad \text{و} \quad \frac{y}{x} = \frac{1+\sqrt{5}}{2}$$

$$\sqrt{2a^2 + \varepsilon a} = -2a + 2$$

$$2a^2 + \varepsilon a = 4a^2 - 4a + 2$$

$$2a^2 - 4a + \varepsilon a - 2 = 0$$

$$(2a-2)(a-1) = 0 \quad a = \begin{cases} 1 \\ \frac{\varepsilon}{2} \end{cases}$$

$$\sqrt{n+1} - \sqrt{n-1} = 2$$

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

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

$$\frac{1}{t+2} - \frac{1}{2-t} = \frac{t}{0t} = \frac{t}{\omega}$$

$$1 - 0 + -(0t+1) = \varepsilon t - t^2$$

$$t^2 + t = 0 \quad t=0 \Rightarrow n=4$$

$$\frac{1}{x^2} + \frac{1}{x^2 - 2x + 1} = \frac{14}{9} \quad \text{جمع رشتہ کا (ایکجا رشتہ کر دیا)} \quad \frac{34}{14} = 2$$

$$x^2 - 2x + 1 + x^2 = \frac{14}{9} \times x^2 - 2x^2 + x^2 \quad 14x^2 - 32x + 101x^2 + 18x - 9 = 0$$

$$\sqrt{x + \sqrt{(x-2)^2 \times (x-4)}} + \sqrt{x^2 + \sqrt{(x-2)(x+4)(x-1)}} = x+2$$

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

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

جواب

تساوی کا قانون درجہ اولیٰ کا صحت سے:

$$y = |x+2| + |x-1|$$

$$y = 7$$

$$-2 > x \rightarrow -x-2+x+1 \rightarrow y = -4x-3 \rightarrow -4x-3=17-x \quad x=-4 \quad \text{درازاہ مورد نظر}$$

$$-2 < x < 1 \rightarrow 2+x-x+1 \rightarrow y = 3$$

$$y = 17-x$$

$$AB = \sqrt{(7-2)^2 + (2-(-4))^2} = \sqrt{25+36} = \sqrt{61}$$

$$1 < x < \infty \rightarrow 2x+2-1 \rightarrow y = 4x+3$$

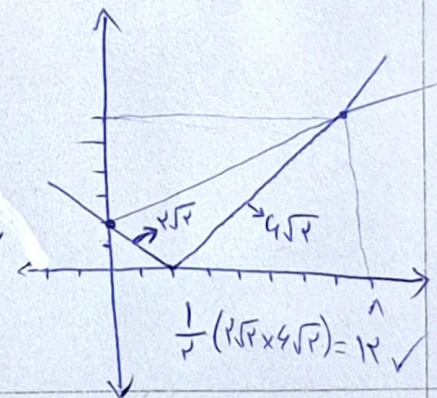
$$4x+3=17-4x \rightarrow 8x=14 \rightarrow x=1.75$$

$$y=0 \rightarrow x=2 \quad \text{درازاہ مورد نظر}$$

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

$$2 < x \rightarrow \frac{1}{p}x+2 = x-2 \Rightarrow x = \frac{4}{p-1}, y = 4$$

$$x < 2 \rightarrow \frac{1}{p}x+2 = 2-x \Rightarrow x = \frac{0}{p+1}, y = 2$$



$$\frac{1}{x-9} + \frac{1}{x} = \frac{1}{20}$$

$$x-9 = 44$$

$$20x + 20x - 180 = x^2 - 9x$$

$$x = 44, 9 \rightarrow 53$$