

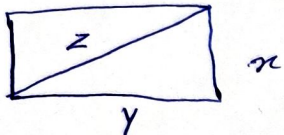
$$S = \omega \times F = 10$$

$$\frac{F \times (2\sqrt{\omega} + 2)}{\omega} = \frac{2\sqrt{\omega} + 2}{\omega}$$



$$F \left(\frac{\sqrt{\omega} + 1}{1} \right) = 2\sqrt{\omega} + 2$$

$$S = F(2\sqrt{\omega} + 2)$$



$$x^2 + y^2 = \omega y^2 + y^2 + 2\sqrt{\omega} y^2$$

$$\frac{y^2}{x^2}$$

$$F_{x^2} + F_{y^2} = F_{y^2} + 2\sqrt{\omega} y^2$$

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

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

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

$$\frac{z}{y} = \frac{\sqrt{\omega} + 1}{1}$$

$$z = \frac{\sqrt{\omega} y + y}{1}$$

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

$$\sqrt{x^2 + F a} = F - F a$$

$$x^2 + F + F = 2 \times$$

$$\frac{F}{V} \checkmark$$

$$F a^2 + F a = F + 9 a^2 - 12 a$$

$$V a^2 - 12 a + F = 0$$

$$a^2 - 12 a + 12 = 0$$

$$(a - 12)(a - 1) = 0$$

$$x \frac{12}{V} \quad \frac{F}{V} \checkmark$$

$$\frac{\frac{F}{V} + 1}{\frac{F}{V}} = 1 + \frac{V}{F} = \frac{9}{F} \checkmark$$

$$\frac{\sqrt{x+1} - \sqrt{x^2-1} - \sqrt{x^2-1} - \sqrt{x+1}}{9 - x + 1} = \frac{-2\sqrt{x^2-1}}{10 - x} = \sqrt{x-1}$$

$$\frac{-2\sqrt{x+1}}{10 - x} = 1 \quad -2\sqrt{x+1} = 10 - x$$

$$F x + F = 10 a + x^2 - F_0 x$$

$$x^2 - 2 F x + 9 F = 0$$

$$\frac{F x \pm \sqrt{\omega F x^2 + F x}}{F} = 12 \pm F \sqrt{x} \rightarrow \begin{cases} 12 + F \sqrt{x} \checkmark \\ 12 - F \sqrt{x} \times \end{cases}$$

$$\frac{F \sqrt{x-n} - F \sqrt{x-n}}{F - F + n} = \frac{F - n}{\omega \sqrt{x-n}}$$

$$\frac{-2\sqrt{x-n}}{F + n} = \frac{F - n}{\omega \sqrt{x-n}}$$

$$F - n^2 = -F_0 + 10 n$$

$$x^2 + 10 n - 2 F = 0$$

$$(n + 12)(n - 1) = 0$$

$$n = -12 \quad n = 1 \times$$

✓ = صحیح / درست

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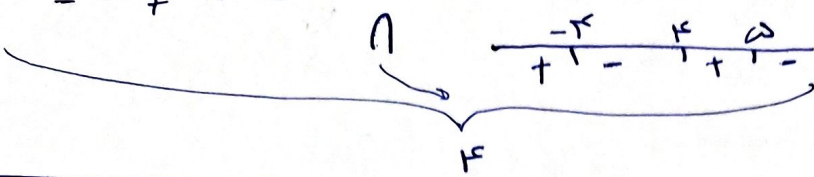
سوال ۶ و ۷ جابجا نوشته شده است

$$-(x^2 - 2x + 1)$$

$$-(x-1)(x-1)$$

$$x(x^2 - 2x)$$

$$(x-x)(x+1)(x-1)$$



یک جواب $x=1$

$$\frac{(1-x)^2 + x^2}{x^2(1-x)^2} = \frac{190}{9}$$

$$\frac{-b}{a} = \frac{2x_0}{190} = 2$$

$$9(2x^2 - 2x + 1) = 190(x^2 - 2x^2 + x^2)$$

$$190x^2 - 380x^2 + 190x^2 - 18x^2 + 18x - 9 = 0$$

$$190x^2 - 380x^2 + 18x^2 + 18x - 9 = 0$$

$$-2x-1 \quad 1 \quad 2x+1$$

$$y = \frac{14-x}{x}$$

$$14-x = 9x^2 \quad 14-x = 9 \quad 14-x = 9x^2$$

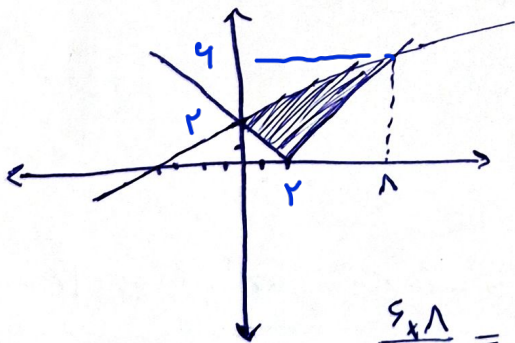
$$2x = -13 \quad x = -13$$

$$1 = x$$

$$15 = 14x \quad x = 1$$

$$\begin{bmatrix} 2 \\ 1 \end{bmatrix} \quad \begin{bmatrix} -1 \\ 1 \end{bmatrix}$$

$$\sqrt{(14-x)^2 (-1-x)^2} = \sqrt{10} = 2\sqrt{10}$$



$$\frac{9 \times 1}{2} = 4.5$$

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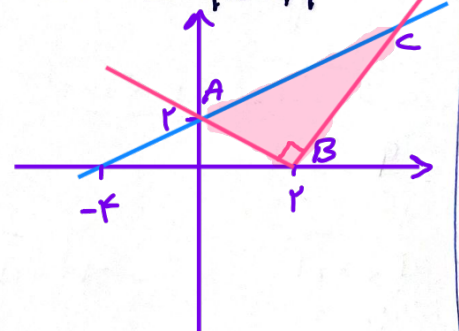
$$\frac{1}{x} + 2 = 0 \quad x = -2$$

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

$$x = 1$$

$$y = 4$$

$$\sqrt{x^2 - 4x + 4} = |x-2|$$



$$14 - 9 = 5 \quad AB = 2\sqrt{2} \quad BC = 4\sqrt{2} \quad S = \frac{1}{2} \times 2\sqrt{2} \times 4\sqrt{2} = 12$$

$$\frac{1}{x} + \frac{1}{x-9} = \frac{1}{10}$$

$$\frac{2x-9}{x^2-9x} = \frac{1}{10}$$

$$x^2 - 9x = 10x - 110$$

$$x^2 - 19x + 110 = 0$$

$$(x-10)(x-11) = 0$$

$$x = 10$$

$$x = 11$$

$$10 - 9 = 1$$