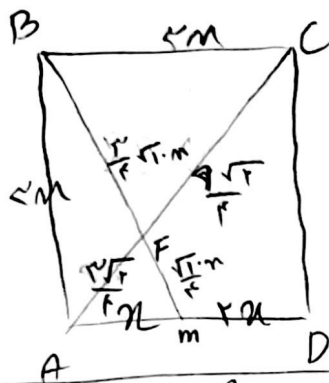




$$Bm = \sqrt{10}x \rightarrow \div f \quad \frac{\sqrt{4}}{x} \rightarrow 1$$

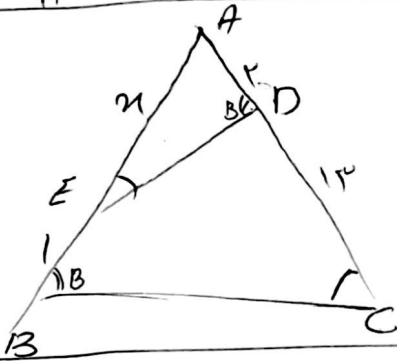
$$CA = \sqrt{10}x \div f = \frac{f}{x} \sqrt{10} \times x$$

$$\frac{\frac{\sqrt{10}}{f}}{\frac{f}{x}} = \frac{\sqrt{10}}{f^2} = \frac{\sqrt{10}}{4}$$

20

19 (سوال 10)

5



$$\begin{matrix} \hat{A} = \hat{A} \\ \hat{E} = \hat{C} \end{matrix} \Rightarrow \triangle ABC \sim \triangle AED$$

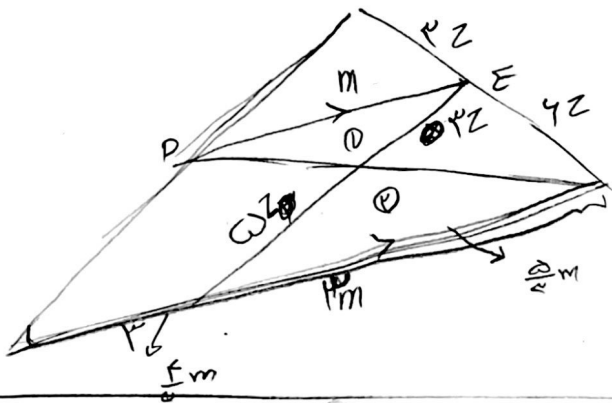
$$\frac{1}{n+1} = \frac{n}{10} \Rightarrow n^2 + n - 10 = 0$$

$$(n+4)(n-5) = 0$$

$$n = 5$$

(20 سوال)

2



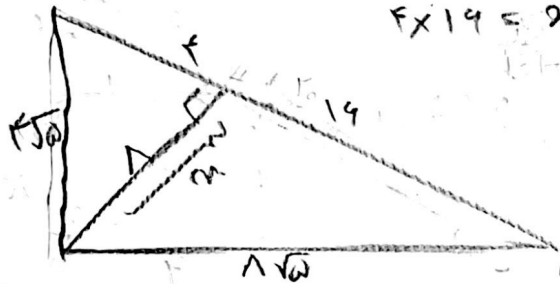
$$y = \omega x \Rightarrow \text{نسبت مستقیم} \Rightarrow \begin{cases} y = \omega x \\ x = yz \end{cases}$$

$$\triangle \sim \triangle \Rightarrow \frac{yz}{\omega x} = \frac{m}{x} \rightarrow \frac{y}{\omega} = m$$

$$\frac{f}{m} = 1 \Rightarrow m = \frac{9}{x} \quad BC = 5m = \frac{45}{x}$$

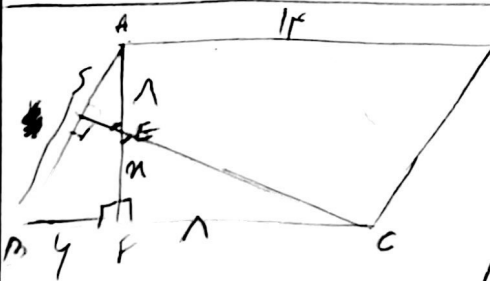
$$f \times 14 = x^2 \Rightarrow x = 7$$

(4 سوال)



$$\frac{1\sqrt{2}}{4\sqrt{2}} = \frac{1}{4}$$

$$\frac{AB \times BC}{f} = BH$$



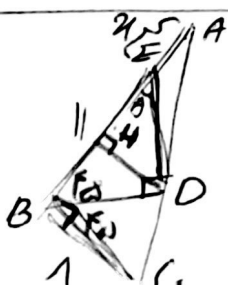
$$\triangle ABF \sim \triangle EFC \quad (\text{نوکری})$$

(20 سوال)

$$\frac{1+x}{1} = \frac{4}{n} \Rightarrow n^2 + 11n - 4 = 0$$

$$(n+12)(n-1) \rightarrow n = 1$$

$$AF = f + 1 = 12$$



$$B = 90^\circ$$

$$B_1 \leq B_2 \leq f \omega \quad (\text{بهره‌دهی است})$$

$$D_1 \leq D_2 \leq f \omega \Rightarrow \ominus \leq f \omega \Rightarrow EPH \cong BDH$$

$$DH = \frac{1}{4} \times 10 = \frac{10}{4} = \frac{5}{2}$$

$$\frac{12}{1} = n + \frac{10}{4} \Rightarrow n = \frac{46}{4} = \frac{23}{2}$$

