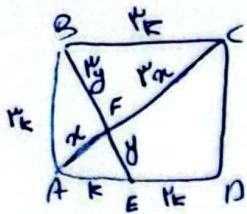


٢١:  $\frac{1}{\sqrt{2}}$  (18) (5)



$$ED = 2AG$$

$$BE^2 = (1/2)^2 + (1/2)^2 \rightarrow BE = \sqrt{1/2}$$

$$y + 1/2 = \sqrt{1/2} \rightarrow y = \frac{\sqrt{1/2}}{2}$$

$$\frac{EF}{AF} = \frac{y}{1/2} = \frac{\sqrt{1/2}}{1/2}$$

$$AC^2 = (1/2)^2 + (1/2)^2 \rightarrow AC = \sqrt{1/2}$$

$$\epsilon \alpha = \sqrt{1/2} \rightarrow \alpha = \frac{\sqrt{1/2}}{\epsilon}$$

$$\hat{AED} = \hat{ACB}$$

$$A = A$$

$$\rightarrow \triangle AED \sim \triangle ACB$$

سبب

$$\frac{AB}{AD} = \frac{AC}{AE}$$

$$\rightarrow \frac{n+1}{1} = \frac{1}{n}$$

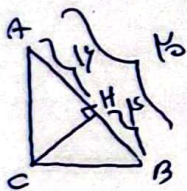
$$\rightarrow n^2 + n = 1 \rightarrow n = -1$$

$$\text{out: } \frac{AE}{AC} = \frac{AD}{AB} = \frac{DE}{BC} \rightarrow \frac{n}{1} = \frac{DE}{BC} \rightarrow BC = nDE$$

$$\text{سبب} \rightarrow \frac{EH}{FH} = \frac{DH}{CH} = \frac{DE}{CF} \rightarrow \frac{n}{1} = \frac{DE}{CF} \rightarrow CF = \frac{1}{n} DE$$

$$\Rightarrow BC = BF + CF$$

$$DE = \frac{1}{n} \rightarrow BC = 1 + \frac{1}{n}$$



$$\frac{AC}{BC} = ?$$

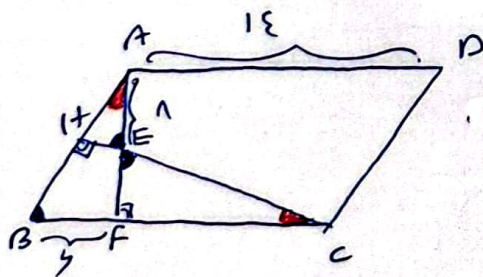
$$CH^2 = \epsilon \times 1 \rightarrow CH = 1$$

$$AC \times BC = AB \times CH \rightarrow AC \times BC = 1 \times 1$$

$$AC^2 = AH \times AB \Rightarrow \epsilon \times 1 = 1 \times 1 \rightarrow AC = 1$$

$$BC = 1\sqrt{2}$$

$$AC = \epsilon\sqrt{2} \rightarrow \frac{AC}{BC} = \frac{1}{\epsilon}$$



$$\triangle AFB \sim \triangle CBH$$

سبب

$$\frac{n}{1} = \frac{1}{n+1}$$

$$\rightarrow n^2 + n = 1 \rightarrow n^2 + n - 1 = 0$$

$$n = 1$$

$$\rightarrow AF = 1 + 1 = 2$$

