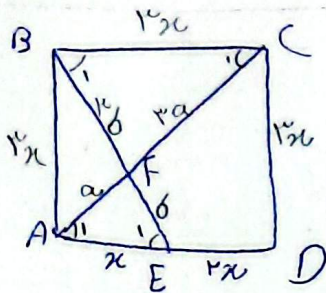


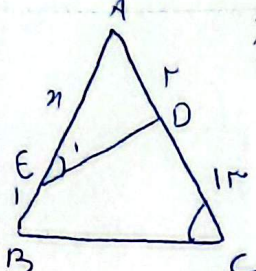
بسم رب الذي خلق العبد

نام و نام خانوادگی ... تستایس علقی زاده ... پاسنامه تشریحی تکلیف شماره ۲۱ کلاس ... بازهم رختی



$$\frac{EF}{AF} = ? \quad BC \parallel AD \Rightarrow \hat{B}_1 = \hat{E}_1 \Rightarrow \triangle BCF \sim \triangle AEF$$

$$BC = 10 \Rightarrow BF = 5\sqrt{2} \quad BE = 4b = 4\sqrt{10} \Rightarrow b = \sqrt{10} \quad \frac{EF}{AF} = \frac{b}{a} = \frac{\sqrt{10}}{3\sqrt{10}} = \frac{1}{3}$$

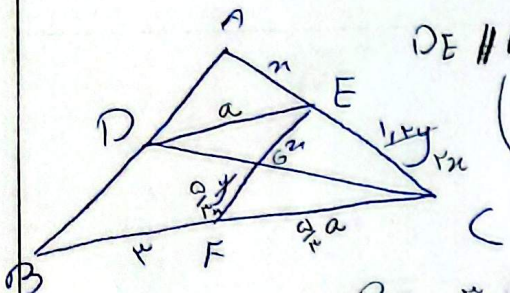


$$\hat{A} = \hat{A} \Rightarrow \triangle AED \sim \triangle ABC \Rightarrow \frac{x}{10} = \frac{2}{x+1}$$

$$x^2 + x = 20 \Rightarrow x^2 + x - 20 = 0 \quad (x+5)(x-4) = 0$$

$$x = -5 \text{ غرق } x = 4$$

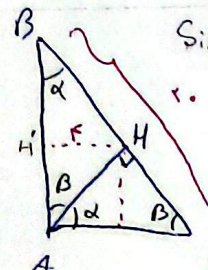
$$x = 4$$



$$DE \parallel BC \Rightarrow \triangle DEG \sim \triangle GFC \quad \text{بسیار شبیه}$$

$$\frac{x}{3x} = \frac{a}{3+a} \Rightarrow 3a = 3 + a \Rightarrow a = \frac{3}{2}$$

$$BC = 3 + \frac{10}{2} = \frac{20}{2} = 10$$

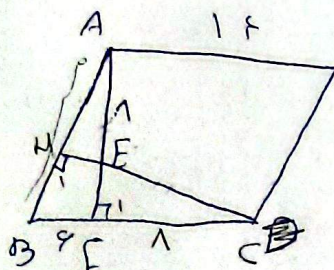


$$\sin \alpha = \frac{AH}{AB} = \frac{AC}{BC} = \frac{4}{10} = \frac{2}{5} = \frac{HC}{AC}$$

$$(AH)^2 = BH \times HC = 4 \times AC = BH \times AC \Rightarrow BH = 4$$

$$\sin \beta = \frac{AH}{AC} = \frac{AB}{BC} = \frac{4}{10} = \frac{BH}{AH}$$

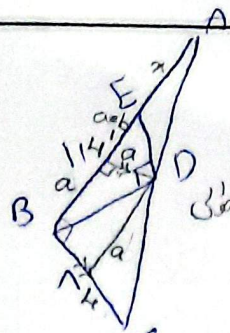
$$(AB)^2 = 4 \times 20 \Rightarrow AB = 4\sqrt{5} \quad \frac{AC}{AB} = \frac{2}{5}$$



$$\triangle BEF \sim \triangle BHC \quad \hat{B} = \hat{B}, \hat{H} = \hat{F} = 90^\circ$$

$$\frac{1}{1+EF} = \frac{EF}{4} \Rightarrow EF = 2$$

$$AF = AE + EF = 12$$



$$DH = a = DH' \text{ خاصیت سینار}$$

$$H'DHB \Rightarrow \text{مربع} \Rightarrow BH' = a$$

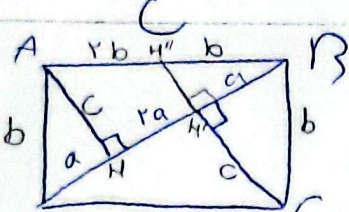
$$a^2 = ab \Rightarrow a = b = a, d$$

$$\frac{x+b}{11+x} = \frac{a}{\lambda} \Rightarrow \frac{x+a, d}{11+x} = \frac{a, d}{\lambda}$$

$$\lambda x + x^2 = 4, a + a, \lambda x$$

$$14, a = 2, 10 x$$

$$x = 4, 4$$



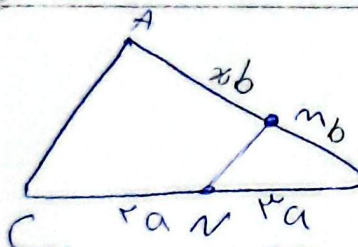
$$AHD \cong BCH'$$

$$S_{\square} = \frac{rac}{r} + \frac{ac}{r} + \frac{rac}{r} + \frac{ac}{r} = 4ac$$

$$S_{\Delta} = \frac{ac}{r}$$

$$\frac{4ac}{\frac{ac}{r}} = (\lambda)$$

آن وقت $\lambda = 4$ برای H'



$$\frac{1}{2} (x+1) b / x a q \times \sin B = r$$

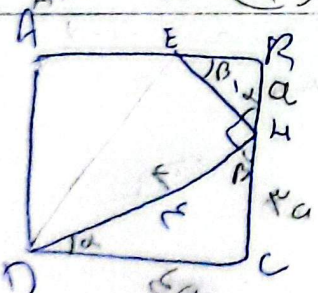
$$\frac{1}{2} b \times r a \times \sin B$$

$$\omega(x+1) = a$$

$$\omega x = r$$

$$x = \frac{r}{\omega}$$

$$\frac{BM}{AM} = \frac{1}{x} = \frac{r}{f}$$

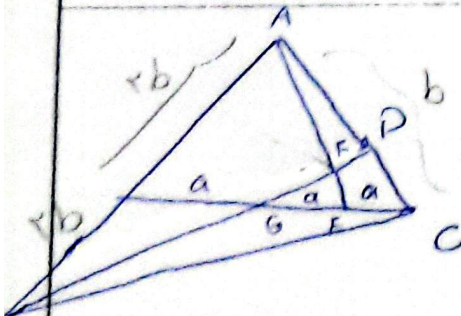


$$BEM \sim HCD$$

$$\frac{1}{f} = \frac{BH}{HC}$$

$$S = \frac{14}{\omega} \times \frac{14}{\omega} = 1, 2 r$$

$$\omega a = f \Rightarrow a = \frac{f}{\omega}$$



Scanned by TapScanner

Scanned by TapScanner