

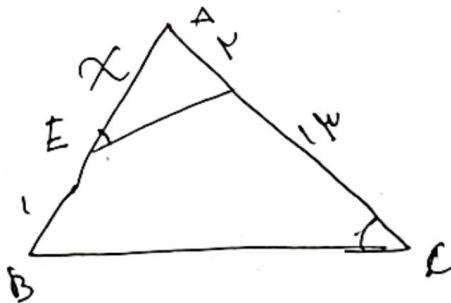
प्रमाणित  
BFC ~ EFA  
1  
 $\hat{F}_1 = \hat{F}_2$   
 $\because BC \parallel AE \Rightarrow \hat{A}_1 = \hat{E}_1$  }  $\Rightarrow BFC \sim EFA$

$$\frac{px}{x} = \frac{BC}{AE} = \frac{BF}{EF} = \frac{CF}{AF} = p$$

$$\frac{BF}{EF} = \frac{CF}{AF} \Rightarrow \frac{BE}{EF} = \frac{CA}{AF} \Rightarrow \frac{BE}{CA} = \frac{EF}{AF}$$

$$AC = \sqrt{p}x \quad BE = \sqrt{p}x \Rightarrow \frac{EF}{AF} = \frac{\sqrt{1-p}}{\sqrt{p}}$$

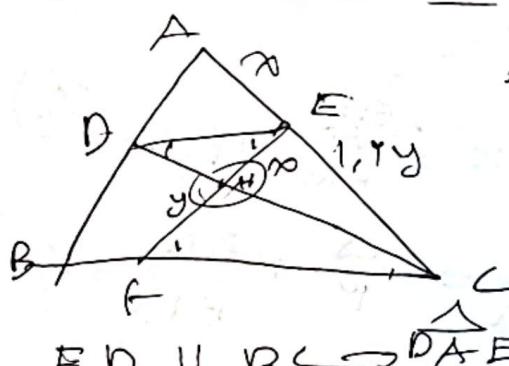
$$\frac{\sqrt{p}}{p}$$



$\hat{A} = \hat{A}$   
 $\hat{E} = \hat{C}$  }  $\Rightarrow AED \sim ACB$

$$\frac{y}{x+y} = \frac{\cancel{x}}{10} \Rightarrow \cancel{x} = x+y$$

$$\Rightarrow x = 0$$



$FC \parallel DE \Rightarrow \hat{F}_1 = \hat{E}_1, D_1 = C_1$   
 $\Rightarrow F+C \sim E+D$

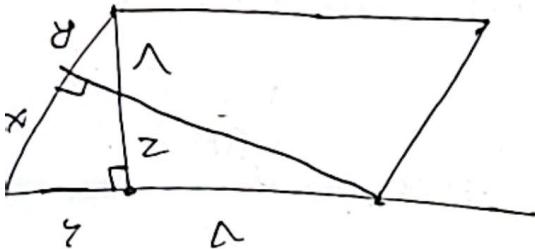
$$\Rightarrow \frac{x}{y} = \frac{DE}{FC} = \frac{w}{v} \Rightarrow x = \frac{w}{v}y$$

$ED \parallel BC \Rightarrow DAE \sim BAC$

$$\frac{FC}{BC} = \frac{1}{11} = \frac{1}{11} - \frac{w}{BC} \Rightarrow BC = \frac{w}{11-w}$$

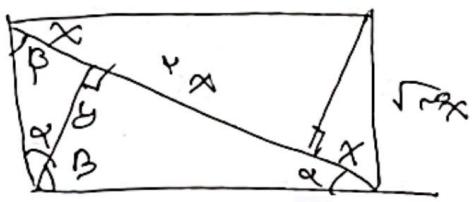
$$\frac{x}{y} = \frac{x}{11-w} = \frac{ED}{BC} \quad \Rightarrow \cancel{BC} = \cancel{BC}$$

$$\frac{x}{y} = \frac{DE}{FC}$$



$$\frac{r}{z} = \frac{r+z}{y} \Rightarrow r = rz + z^2 \Rightarrow z = r$$

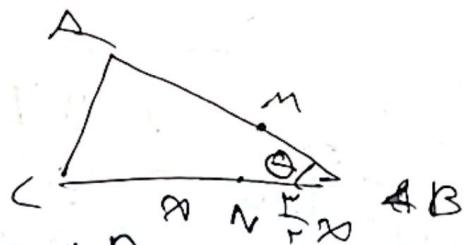
$$r+z = r+r = 180^\circ$$



$$\frac{r}{y} = \frac{y}{x} \Rightarrow y = \sqrt{r}x$$

$$(\sqrt{r}x)^2 + (\sqrt{r}x)^2 = 180^\circ \Rightarrow \sqrt{180}x$$

$$\sqrt{r}x \times \sqrt{180}x = \cancel{\sqrt{r}x} \times \cancel{\sqrt{180}x} = 1$$

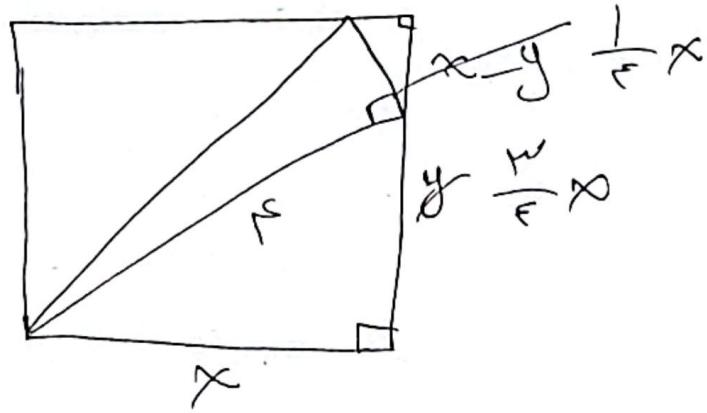


$$S = \frac{1}{2} \sin \theta \times ab$$

$$\Rightarrow \frac{S_1}{S_2} = \frac{\frac{1}{2} \sin \theta \times AB \times BM}{\frac{1}{2} \sin \theta \times \frac{r}{q} \times BM} = \frac{\cancel{\frac{1}{2} \sin \theta \times BM}}{1} \times \frac{AB}{\cancel{BM}} = q$$

$$\Rightarrow \frac{BM}{AB} = \cancel{\frac{1}{2} \sin \theta} \frac{q}{q}$$





10

$$\frac{x}{\epsilon} \Rightarrow \frac{x-y}{1} \Rightarrow x = \epsilon x - \epsilon y$$

$$\Rightarrow x = \frac{y}{1-\epsilon}$$

$$x^r + \frac{y^r}{1-\epsilon} x^r = \frac{r^r}{1-\epsilon} x^r \Rightarrow \frac{\epsilon}{\epsilon} x = r$$

$$x = \frac{r}{\epsilon} \Rightarrow \frac{x^r}{\frac{r^r}{\epsilon}} = x^r = \epsilon$$