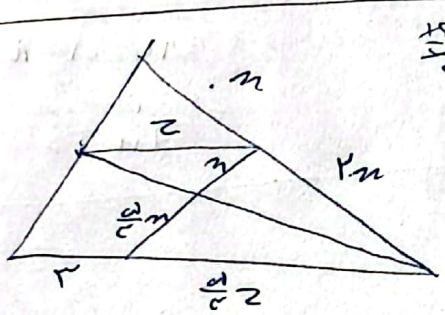


$$\Rightarrow \frac{EF}{AF} = \frac{\sqrt{10}}{x} \times \frac{x}{r\sqrt{2}}$$

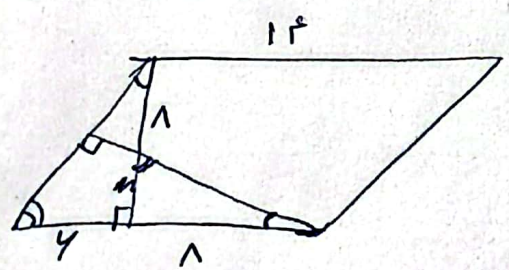
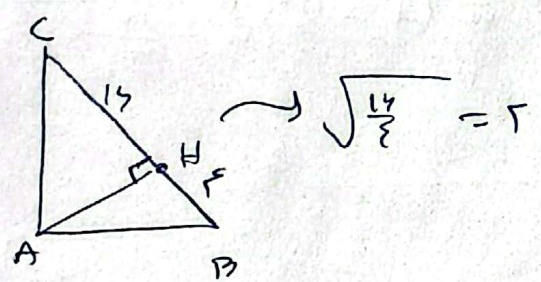
$$AF = \frac{x}{\sqrt{2}}$$

$$\Rightarrow \frac{EF}{AF} = \sqrt{\frac{1}{14} + \frac{9}{14}} = \frac{\sqrt{10}}{x}$$

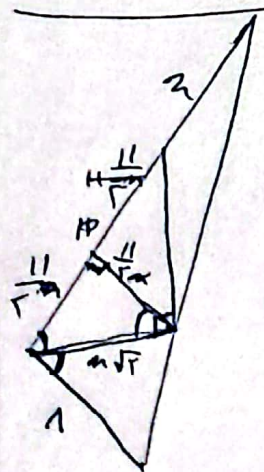
$$\frac{P}{1+m} = \frac{n}{1\omega} \quad \text{Case } m+n+r+n-r=0 \Rightarrow m=\omega$$



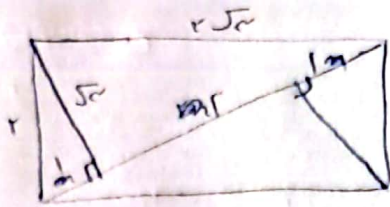
$$\Rightarrow \frac{2}{r+\frac{\omega}{2}} = \frac{1}{r} \Rightarrow r + \frac{\omega}{2} = 2r \Rightarrow \frac{\omega}{2} = r \Rightarrow \omega = 2r$$



$$\frac{a}{1} = \frac{14}{1+m} \quad \text{Case } 1m+m+n+r+1m-r=0 \Rightarrow m=1$$

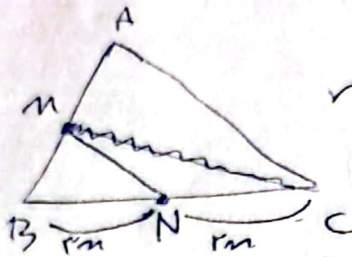


$$\frac{n+11}{n+11} = \frac{11}{14} \Rightarrow 11m+11r = 14n+11 \Rightarrow m=r$$



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

- V



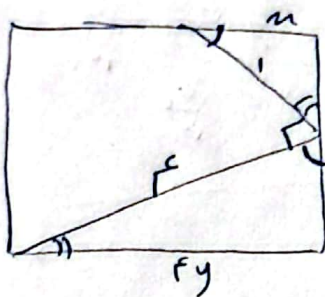
$$S_7 \approx \omega(BM+AM) = \omega BM + \omega AM$$

$$S_{BMN} \approx r_{BM}$$

$$\Rightarrow \frac{\omega BM + \omega AM}{r_{BM}} = r_{BM}$$

$$\Rightarrow \epsilon_{BM} = \omega AM$$

$$\Rightarrow \frac{BM}{AM} = \frac{a}{f}$$

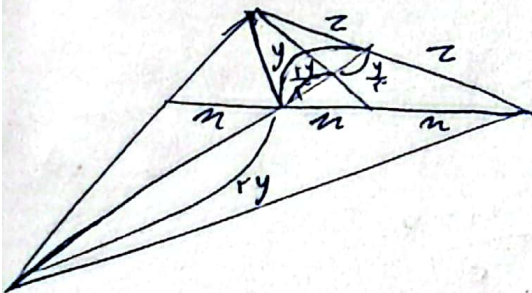


$$\epsilon y = y + f_m$$

$$x y = f_m$$

$$\frac{14}{9} \cdot \frac{f_m}{f_y} = 1 \Rightarrow m = \frac{f_y}{f_m} \Rightarrow a = \frac{14}{9} \times \frac{f_y}{f_m} = \frac{14}{9} \rightarrow S = \frac{f_y}{f_m}$$

- 2



$$\Rightarrow \frac{y}{f_y} \cdot \frac{r_y}{f_y} = 9$$

- 1