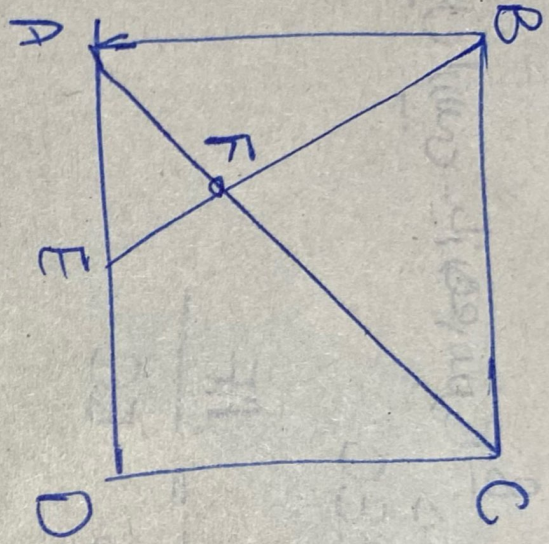




$$ED = rAE$$

$$\frac{EF}{AF} = ?$$

$$AFE \sim GCFE$$

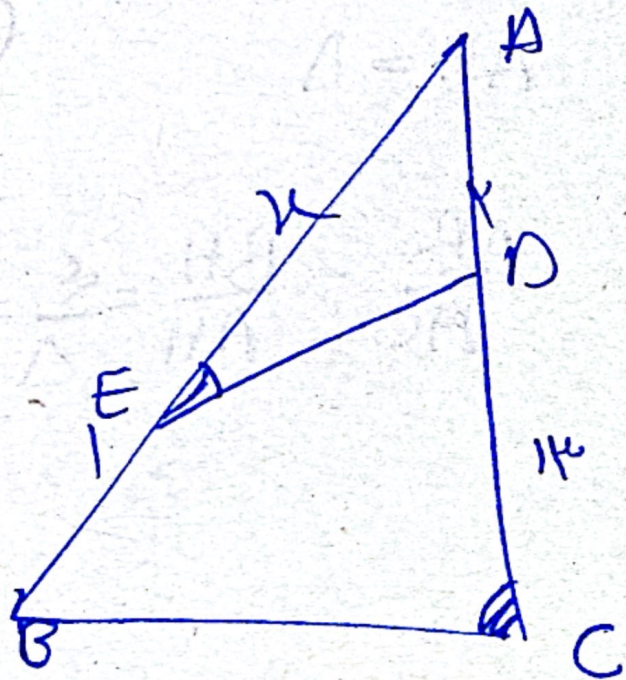
$$\frac{AF}{FC} = \frac{AE}{ED} = \frac{1}{r}$$

$$\frac{EF}{AF} = r$$

$$AC = AF + FC$$

نویس ایری - لایه سدر

①



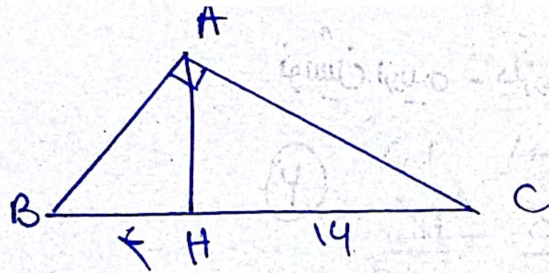
$AED \sim ABC$

نوسن اړیکه - باره سربس B

$$\frac{BC}{ED} = \frac{\cancel{AB}^{k+1}}{\cancel{AD}^1} = \frac{\cancel{AC}^{1a}}{AE} \quad (4)$$

$$k_c = k^r + k$$

$$k = \infty$$



$$AH^2 = BH \times HC = 4 \times 14 \quad AH = 1$$

(*)

$$ABH \sim ABC \quad \frac{AB}{AC} = \frac{BH}{AH} = \frac{4}{1} = 4$$

$$DE \parallel BC \quad \text{If } DE = 2 \quad BF = 3 \quad BC = ?$$

(*)

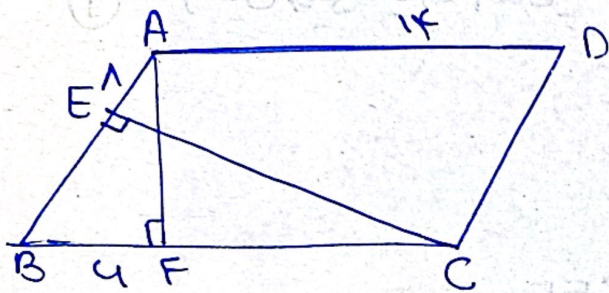
$$ADE \sim ABC \quad \frac{AE}{AC} = \frac{DE}{BC} \rightarrow \frac{2}{3} = \frac{DE}{BC} = \frac{1}{3}$$

$$4BC = 3DE$$

$$\boxed{BC = 9}$$

$$AC = 2 + 1 \times 3 \quad 2 + 1 \times \left(\frac{2}{3} \times 3\right) = 3$$

$$\frac{DE}{BC} = \frac{2}{3} \quad \boxed{DE = 2}$$



نوٹس: اردو - یا زہر سیری

$$\triangle ABF \sim \triangle BEC$$

$$\frac{AB}{BC} = \frac{BF}{EB} = \frac{AF}{EC}$$

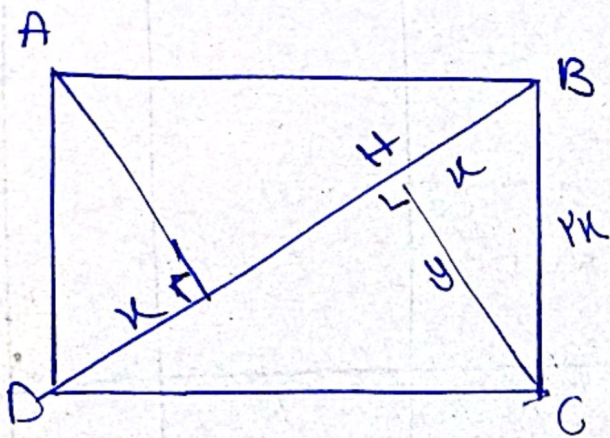
$$\frac{1 + EB}{14} = \frac{4}{EB} \quad EB^2 + 1EB - 14 = 0$$

$$(EB - 4)(EB + 14) = 0$$

$$AB^2 = AF^2 + BF^2$$

$$14^2 = AF^2 + 4^2$$

$$196 - 16 = AF^2 \quad AF = \sqrt{180} = 6\sqrt{5}$$



$$y^2 = x \times yk \quad y = \sqrt{yk}$$

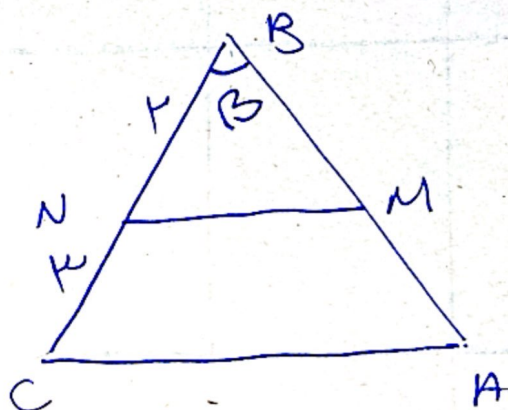
$$BC^2 = x^2 + yk^2 \quad BC = yk$$

$$DC^2 = yk^2 - x^2 = 12x^2 \quad DC = \sqrt{12}x$$

$$\frac{S_{ABCD}}{S_{BHC}} = \frac{\frac{1}{2} \times yk \times \sqrt{yk}}{\frac{1}{2} \times x \times \sqrt{yk}} = \frac{yk \times \sqrt{yk}}{x \times \sqrt{yk}}$$

$$= 11$$

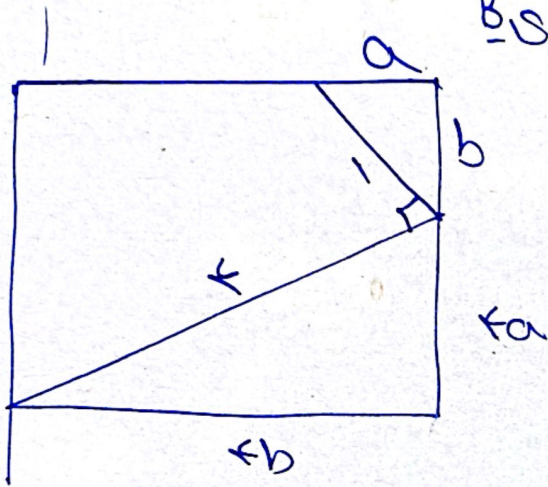
$$\frac{S_{ABC}}{S_{BNM}} = \frac{\frac{1}{2} \times AB \times BC \times \sin B}{\frac{1}{2} \times BM \times BN \times \sin B} = 9 \quad (1)$$



$$\frac{BM}{BA} \times \frac{BN}{BC} = \frac{1}{9} \quad \frac{BM}{BA} = \frac{a}{9}$$

$$\frac{BM}{AM} = \frac{a}{x}$$

نوسین اریسین - یازدهم



نویسن اریب - یازدهم درس B

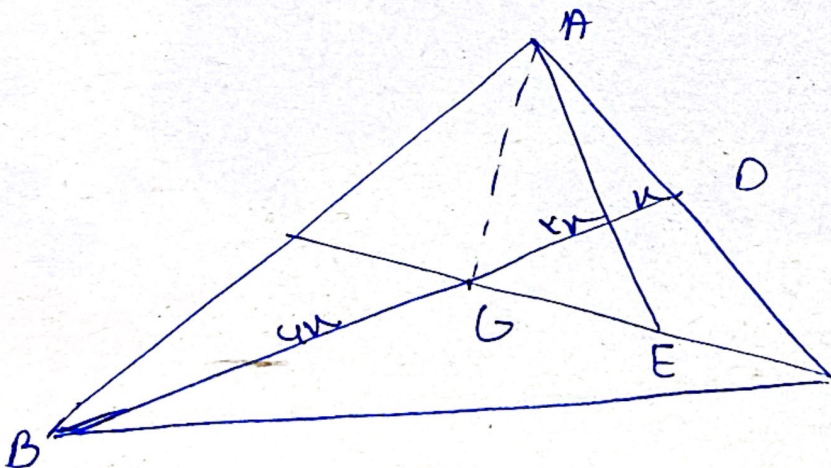
④

$$ka + b = kb \quad a = \frac{3}{k}b$$

$$\left(\frac{3}{k}b\right)^2 + b^2 = 1$$

$$b = \frac{k}{a} \text{ فاصله } = \frac{14}{a}$$

$$\text{مساحت مربع} = \left(\frac{14}{a}\right)^2$$



میانهای مثلث به نسبت ۱ به ۲
هر یک را قطع می کنند

⑤

$$\frac{BD}{FD} = \frac{7m}{4m} = \text{A}$$