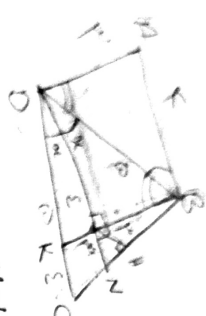
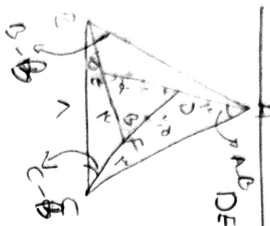


$\frac{MD}{MB} = \frac{DE}{BC} = \frac{1}{11}$
 $\frac{S_{ADE}}{S_{ABC}} = \frac{DE^2}{BC^2} = \frac{1}{121}$

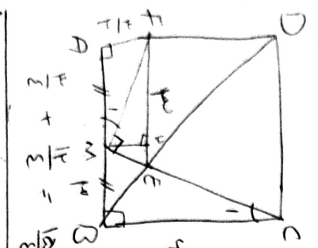
$\frac{S_{ADE}}{S_{ABC}} = \frac{DE^2}{BC^2} = \frac{1}{121}$
 $\frac{S_{ADE}}{S_{ABC}} = \frac{1}{121}$



$AB \parallel MD \Rightarrow AD \parallel DM$
 $AD \parallel BM \Rightarrow BM = MK = r$
 $DC = a \Rightarrow DK + KC$
 $MN = \frac{1}{11} \times KC \Rightarrow \boxed{MN = 1}$



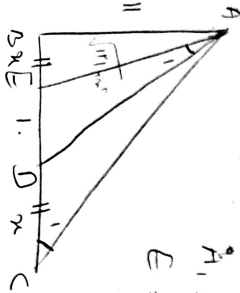
$AB \parallel DE \Rightarrow \frac{AD}{DB} = \frac{AE}{EC}$
 $\frac{1}{11} = \frac{x}{11-x} \Rightarrow x = 1$



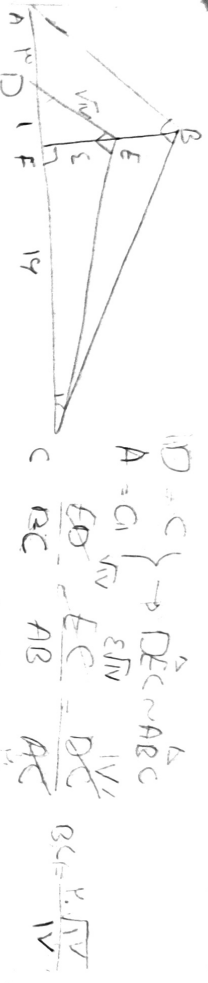
$C_1 = M_1$
 $A = B = a$
 $\left(\frac{1}{11}\right)^2 = \frac{r^2}{a^2} \Rightarrow r = \frac{a}{11}$
 $AF = \frac{a}{11}$
 $FM = \frac{a}{11}$
 $AE = \frac{a}{11}$
 $ED = \frac{a}{11}$

$\frac{AE}{ED} = \frac{AF}{FD} \Rightarrow \frac{1}{11} = \frac{1}{11}$

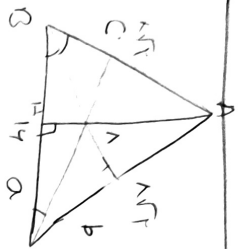
$\frac{AE}{ED} = \frac{AF}{FD} \Rightarrow \frac{1}{11} = \frac{1}{11}$



$x = 1$
 $x = 1$



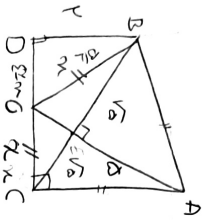
$$(FE)^T = DE \times FC \Rightarrow 14 = 1 \times FC$$



$$(1\sqrt{1})^T \times m^T = (14)^T$$

$$\sqrt{1 \times 1} = \sqrt{1 \times 1} = 1\sqrt{1}$$

$$m = \frac{1}{\sqrt{1}} \sqrt{1} (1\sqrt{1})^T = 1\sqrt{1} = 1\sqrt{1}$$



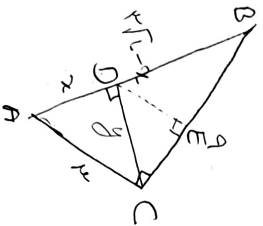
$$\xi + (\xi - \alpha)^T = \alpha^T$$

$$\xi + 14 - 1\alpha \times \sqrt{1} = \alpha^T$$

$$10 = 1\alpha \rightarrow \alpha = \frac{10}{1}$$

$$(1)^T + (\xi)^T = \xi + 14 \times 1$$

$$S_{ABE} = S_{ABC} - S_{ACE} = \frac{1}{2} \times 10 \times 1 - \frac{1}{2} \times 1 \times 1 = 4.5$$



$$11 + 9 = 20$$

$$x = \frac{1}{11} \times \sqrt{1} = \frac{1}{11}$$

$$\left(\frac{1}{11}\right)^T + (DC)^T = 9 \Rightarrow \frac{1}{11} \times \sqrt{1} + (y)^T = 9 - \frac{1}{11} = \frac{98}{11}$$

$$DC = \frac{98}{11}$$

$$(1\sqrt{1})^T \times \frac{98}{11} = 1 \times DE \Rightarrow DE = \frac{98}{11}$$

$$133 = \alpha(10) \rightarrow \alpha = \frac{133}{10} = 13.3$$

$$10 - 1 \times 1 = 9$$

$$DE \parallel BC \rightarrow \frac{DE}{BC} = \frac{1}{11}$$

$$DE = \frac{1}{11} \times 11 = 1$$