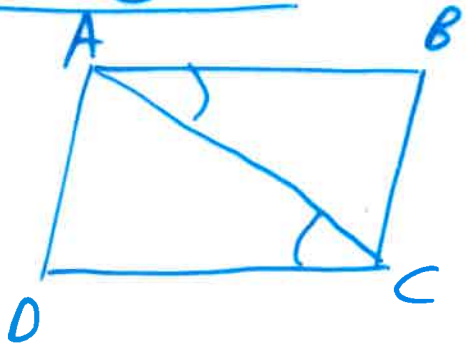


L 1.34 (a) & (b)

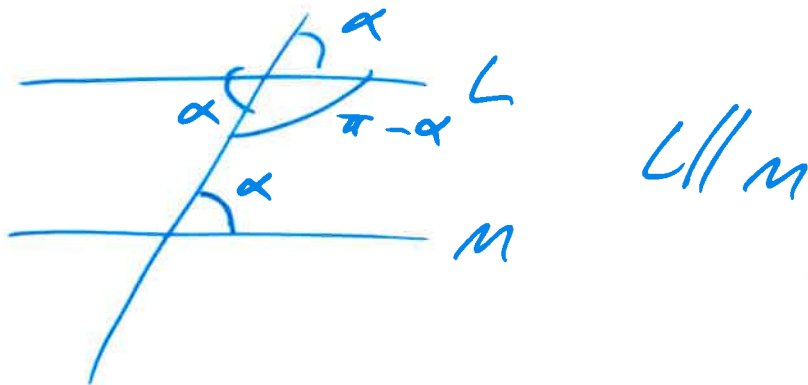
(8)



$$\begin{cases} AB \parallel DC \\ AD \parallel BC \end{cases} \Leftrightarrow \begin{cases} AB = DC \\ AD = BC \end{cases}$$

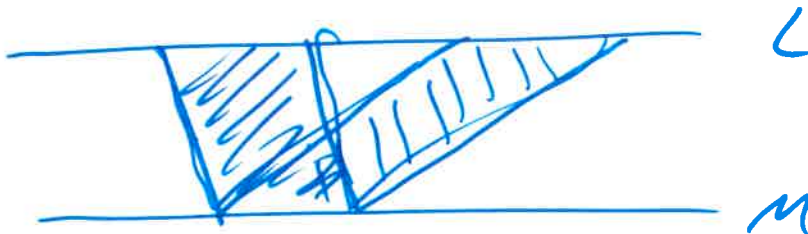
$$\Leftrightarrow \begin{cases} AB = DC \\ AD = BC \end{cases}$$

(TOD. VUORO KULMA LAUSELLE)

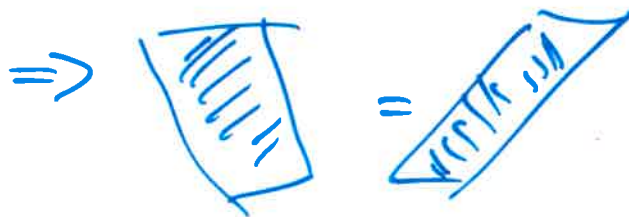


$L \parallel M$

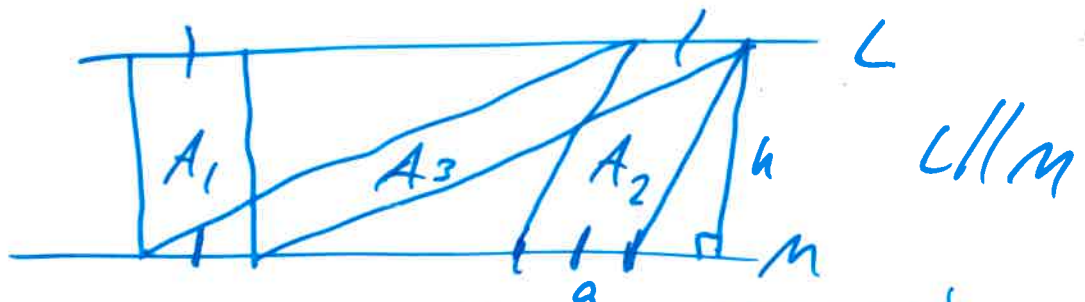
L. 135



$L \parallel M$



L 1.36

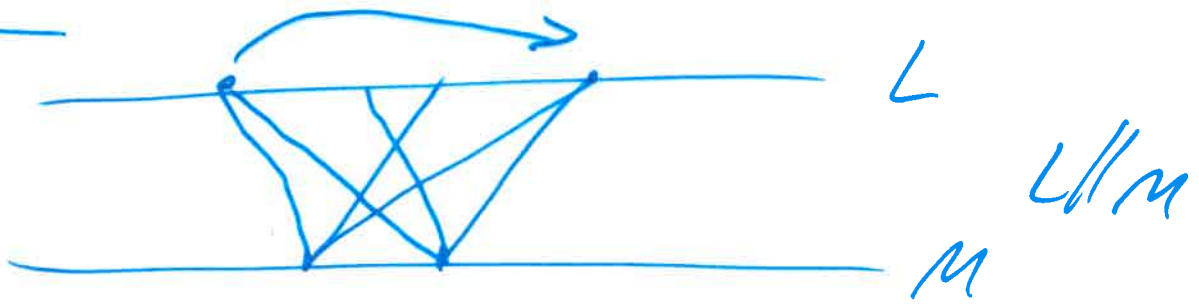


$$\Rightarrow A_1 = A_2$$

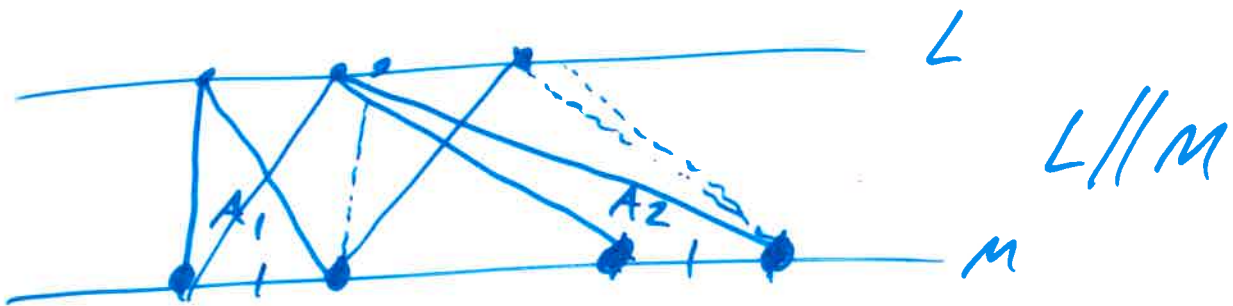
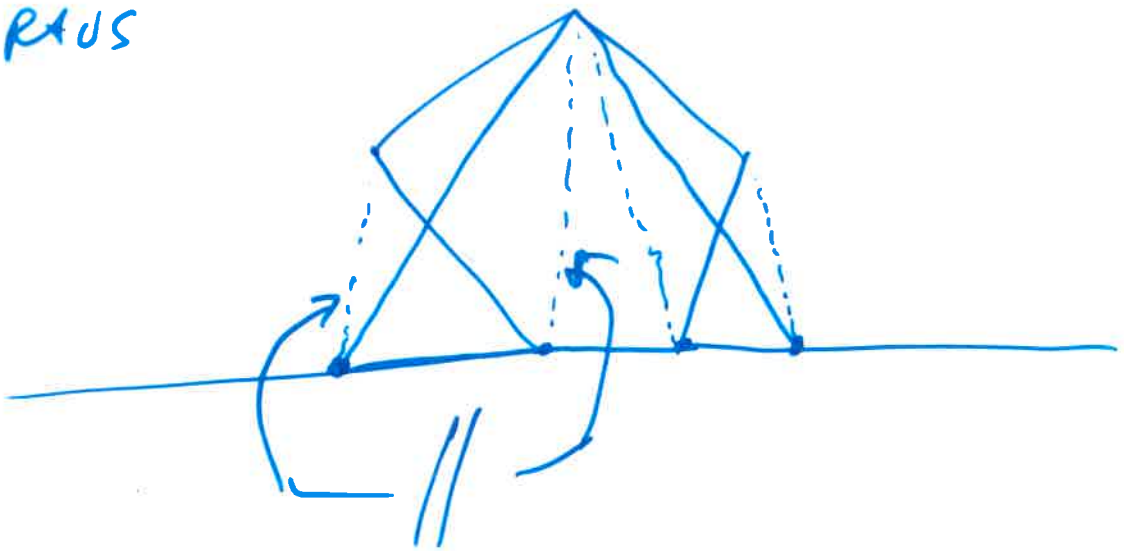
$$A_2 = ah$$

Tod  $A_1 = A_3 = A_2$

L. 137

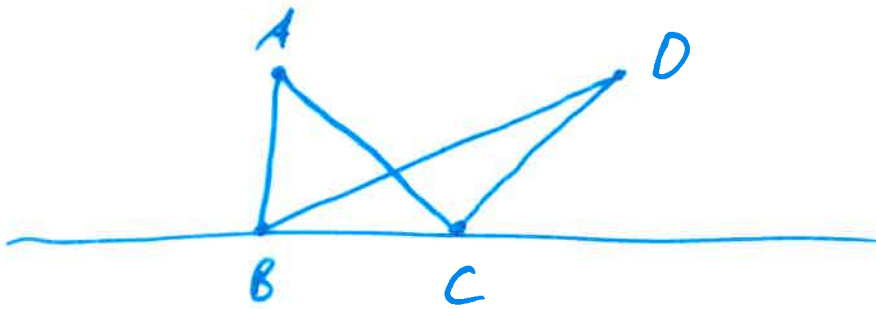


SEURUS



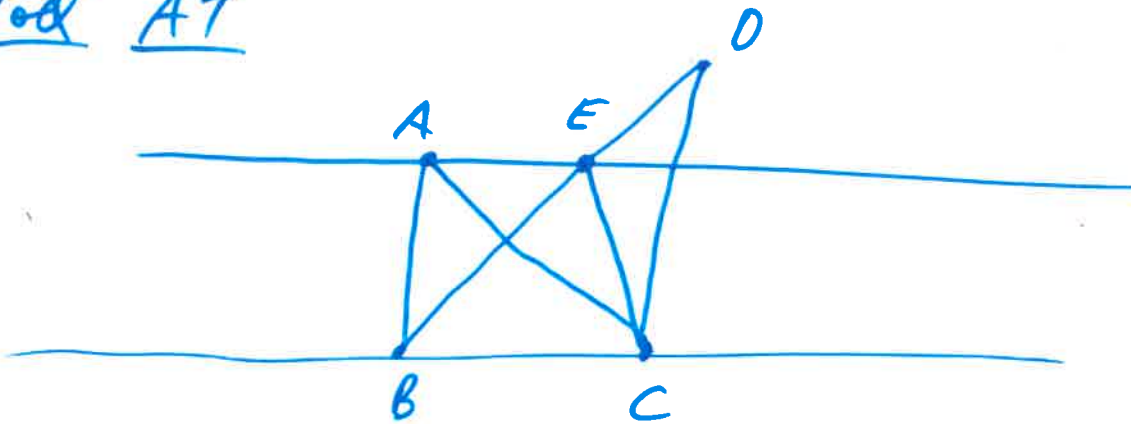
$\Rightarrow A_1 = A_2$

L. 1.39



$$ALA(ABC) = ALA(DBC) \Rightarrow AD \parallel BC$$

Tood AT



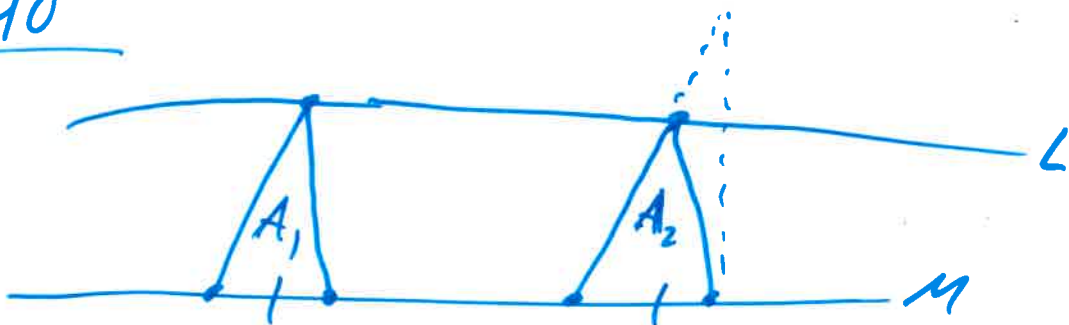
SIIS  $AD \parallel BC$ , VAAAN  $D \notin AE \parallel BC$ .

$$NYT ALA(EBC) \stackrel{L.1.38}{=} ALA(ABC) \stackrel{OLETUS}{=} ALA(DBC)$$

JA  $E \in BD$ .

$$> ALA(EBC) \quad RR$$

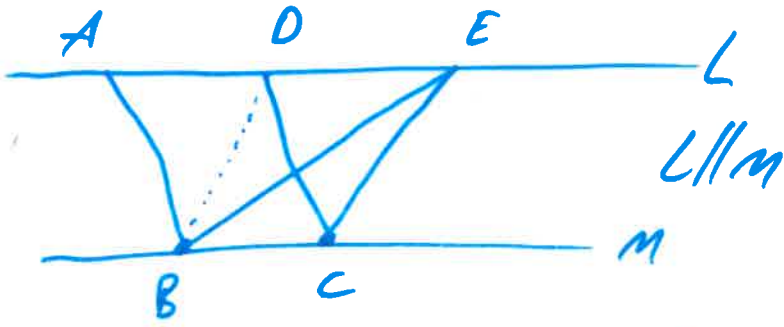
L. 1.40



$$A_1 = A_2 \Rightarrow L \parallel M$$

Tood AT (ok) KULU L. 1.39 TOO.

L. 1.41 (a)



$$\Rightarrow ALA(ABCD) = 2 ALA(EBC)$$

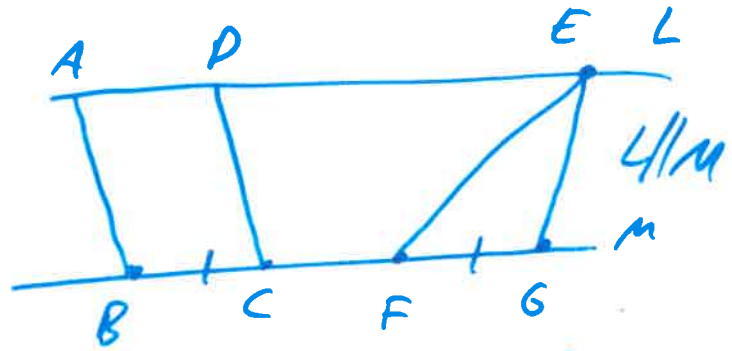
Tod.  $ALA(ABCD)$

$$= \underline{ALA(ABD)} + \underline{ALA(DBC)}$$

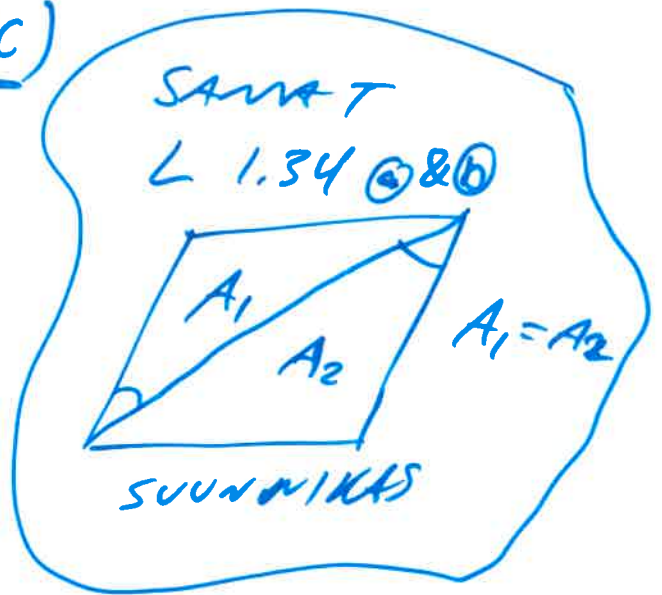
$$= 2 ALA(DBC)$$

$$= 2 ALA(EBC).$$

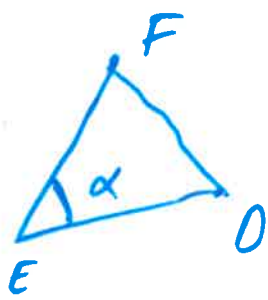
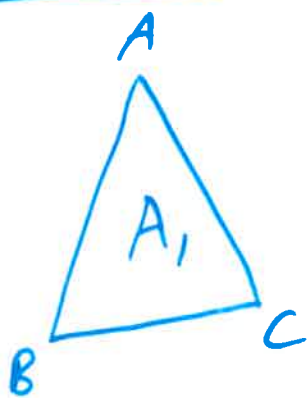
(b)



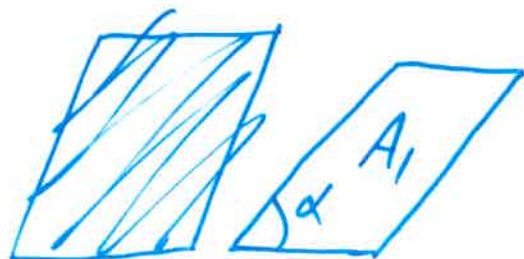
$$\begin{aligned} \Rightarrow ALA(ABCD) &= 2 ALA(EFG) \\ &= 2 ALA(EBC) \end{aligned}$$



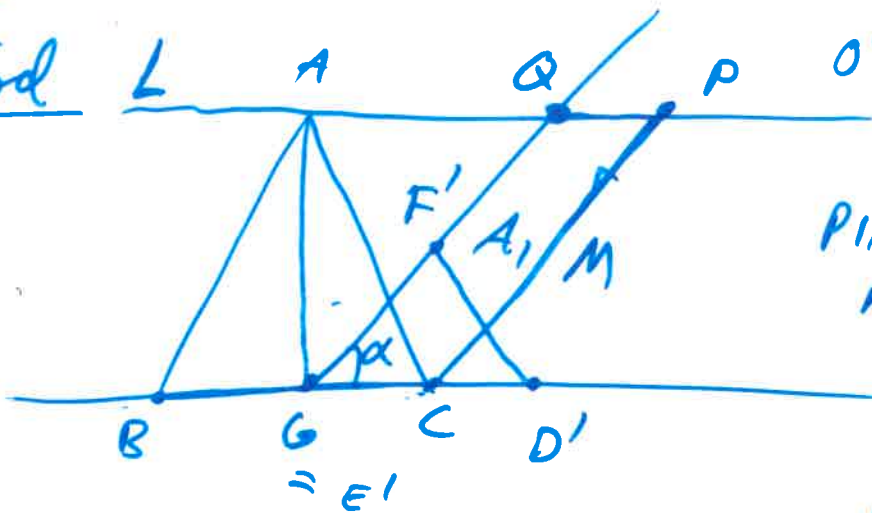
T. 1.42



?  
 $\Rightarrow$



Tod



OTA  $G \in BC$ , JOLLE  
 $BG = GC$ .

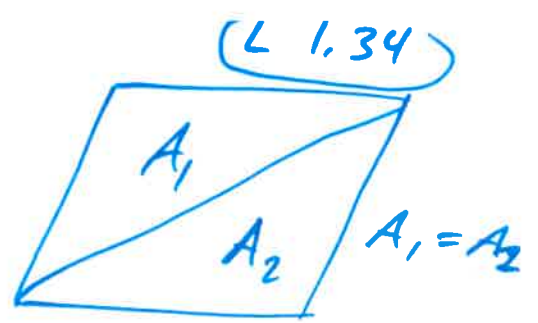
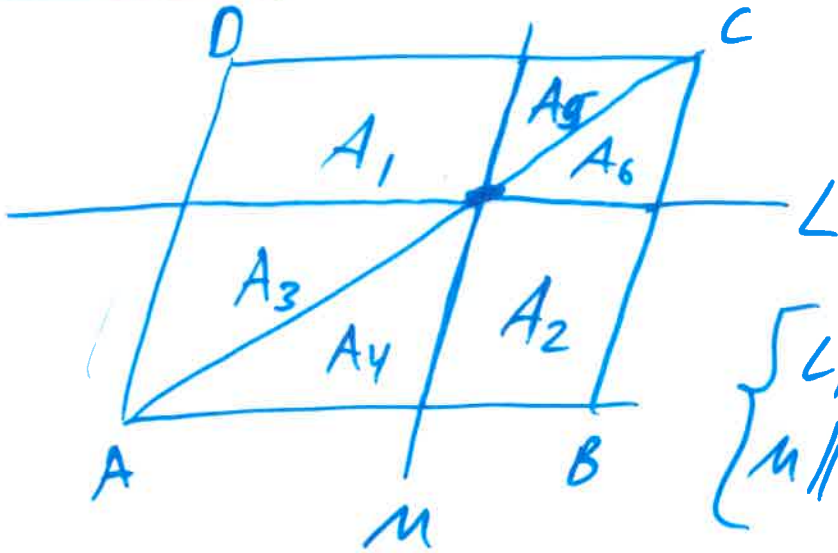
PIIRRI'  $\Delta DEF \sim$   
 KOPIO  $\Delta D'E'F'$ , JOLLE

$G = E'$   
 $E'O' \subset BC$

- PIIRRI'  $L \parallel BC$  JOLLE  $A \in L$ .
- PIIRRI'  $GF$ , OLKON  $Q = GF \cap L$ .
- PIIRRI'  $M \parallel GQ$  JOLLE  $C \in M$ .
- OLKON  $P = M \cap L$ .

$$\begin{aligned} \text{ALA}(QGC) &= 2 \text{ALA}(AGC) \\ &= \text{ALA}(AGC) + \text{ALA}(ABG) \\ &= \text{ALA}(ABC). \end{aligned}$$

L. 143



$$\begin{cases} L \parallel AB \parallel DC \\ M \parallel DA \parallel CB \end{cases} \Rightarrow A_1 = A_2$$

Todo

$$L. 1.34 \Rightarrow A_1 + A_3 + A_5 = A_2 + A_4 + A_6$$

-  
-

$$A_3 = A_4$$

$$A_5 = A_6$$

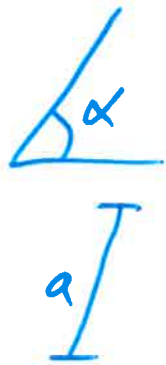
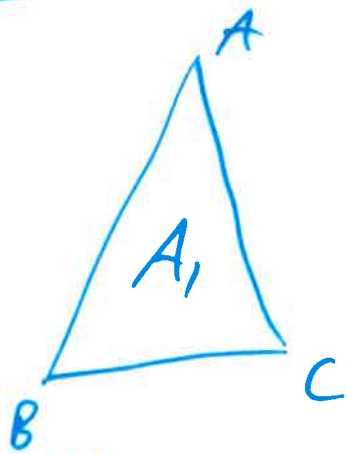
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$$A_1 = A_2$$

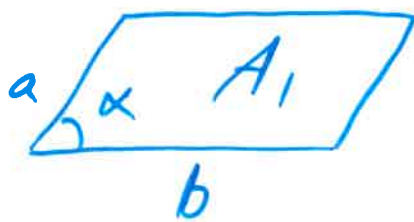
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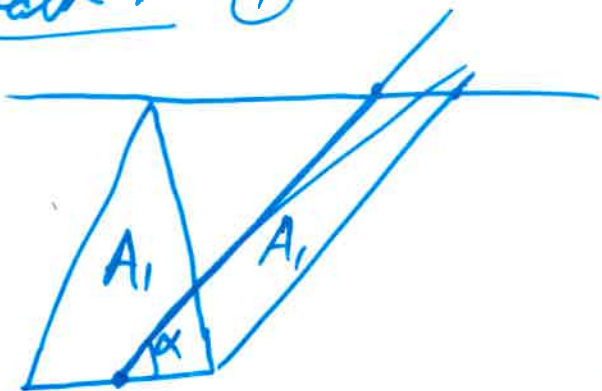
Teht 1.44



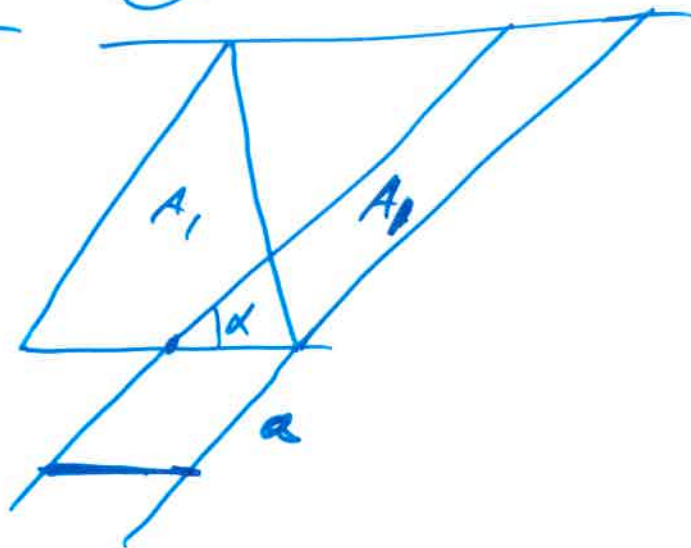
$\Rightarrow$



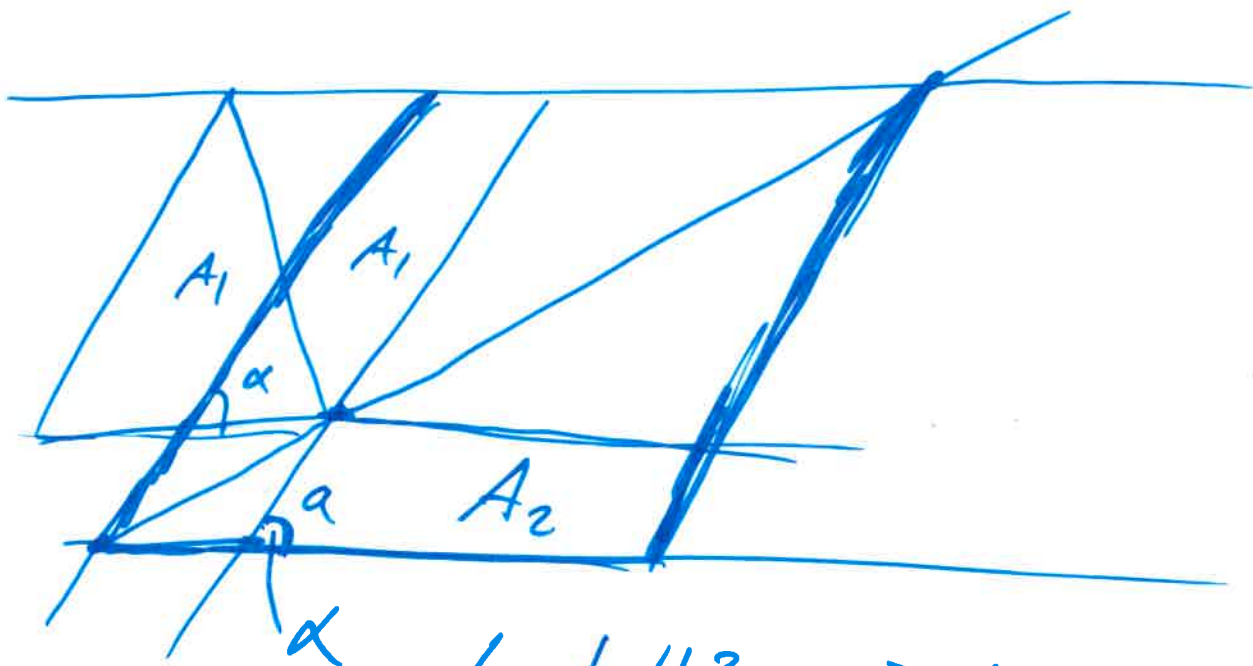
Ratk. ①



②

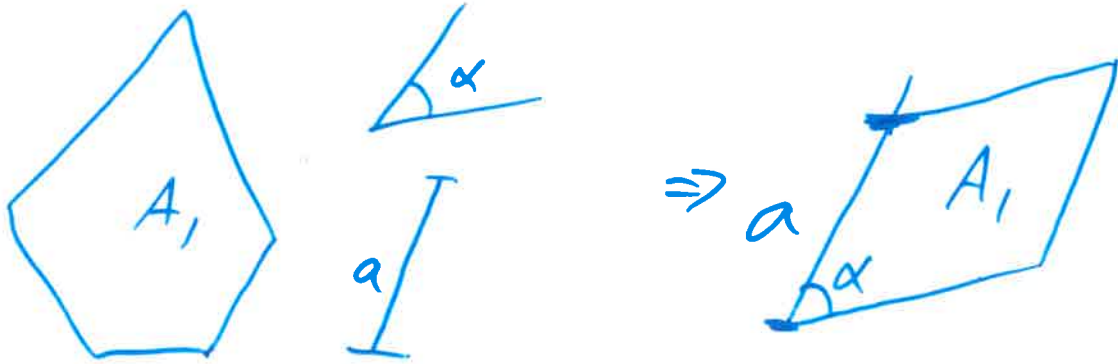


③

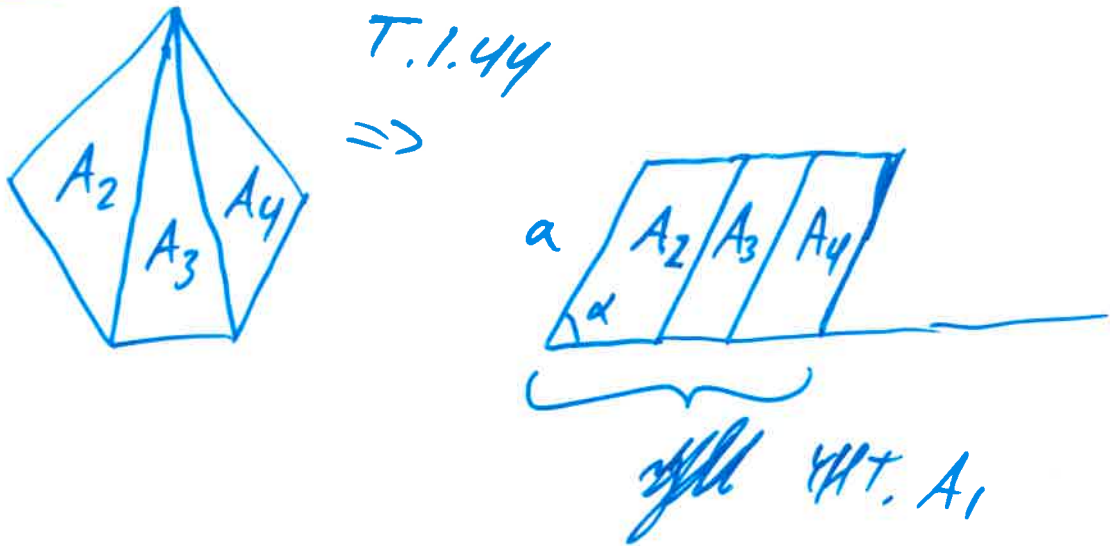


L. 1.43  $\Rightarrow A_1 = A_2$

T. 145



Ratk.



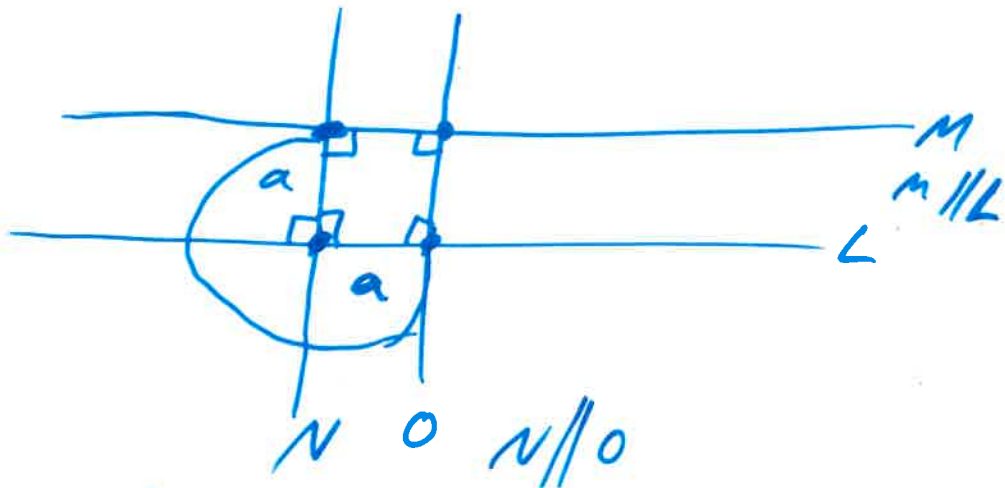
T. 1.44

$\Rightarrow$

T. 1.46



Ratk.



K. VUOROKULMA LAUSE  $\Rightarrow$  SUORA KULMIÖ

SIVUT YHTÄ PITKIÄ  $\Rightarrow$  NELIÖ.  $\square$