

Tööde vihk.

Rudolf Leppa.

T. O. S.

K 45604-1

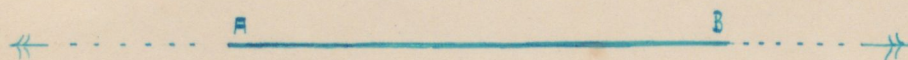
14 lk

Tartu Õpetajate Seminar

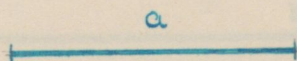
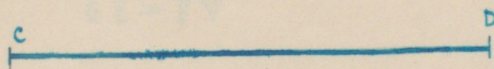
1

Figjoon.

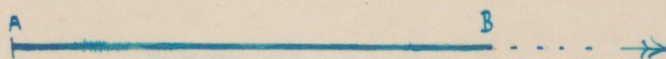
13. IX. 26.



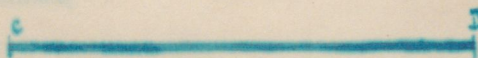
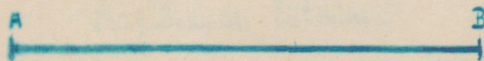
Figlõigud.



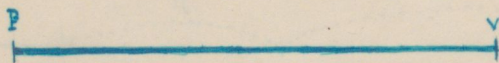
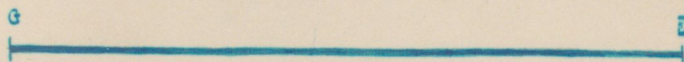
Küin.



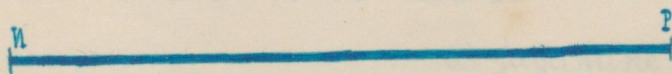
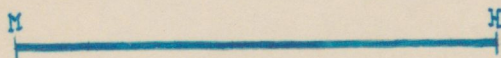
Figlõikude võrdlemine.



$AB = CD.$

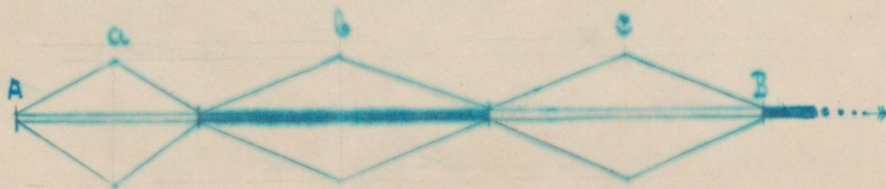
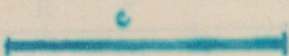
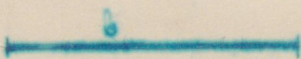
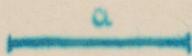


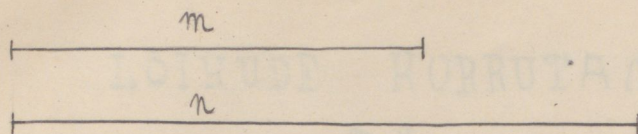
$$GE > PV$$



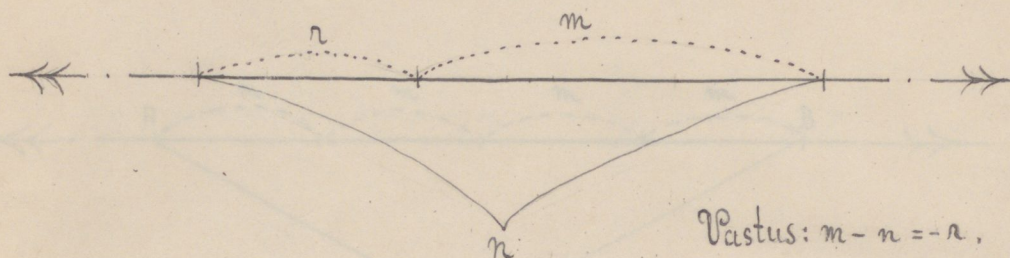
$$MH < MP.$$

Ergebnisse lütmine.



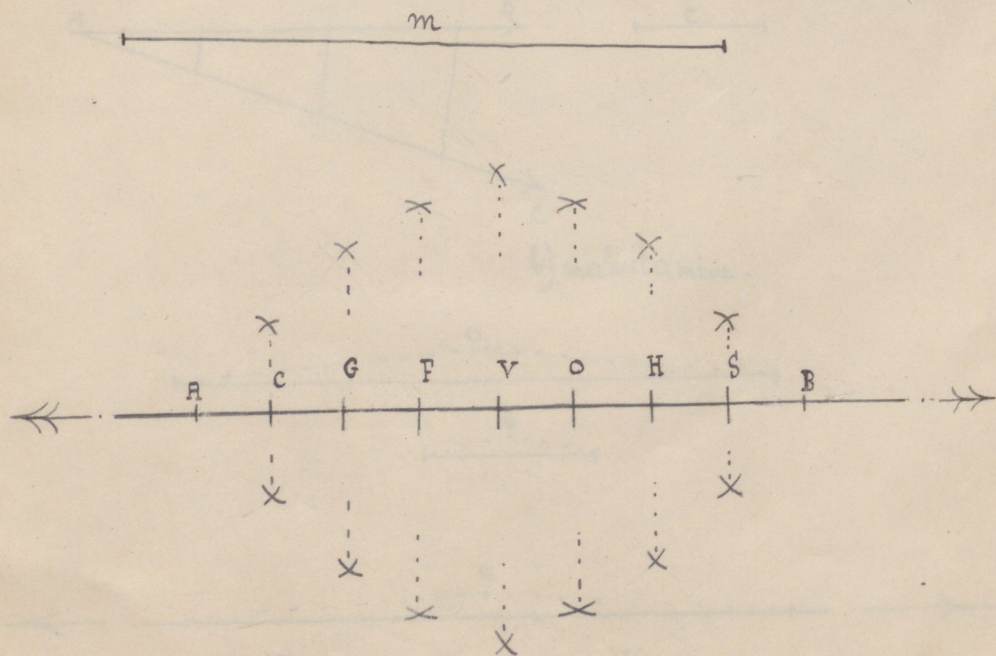


15. IX. 26.



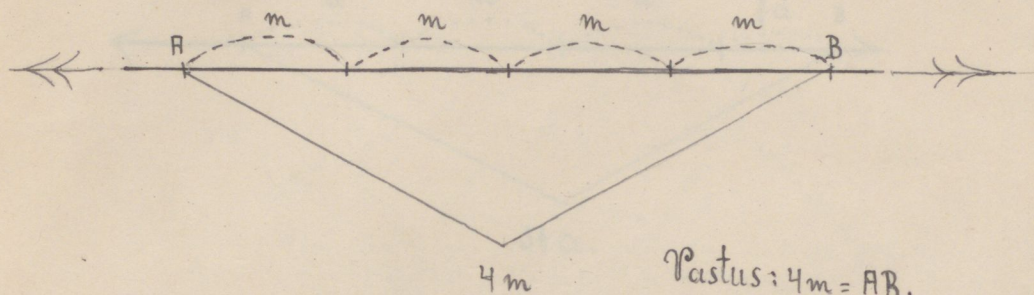
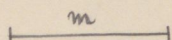
LÕIKUDE JAGAMINE.

a) jagamine.



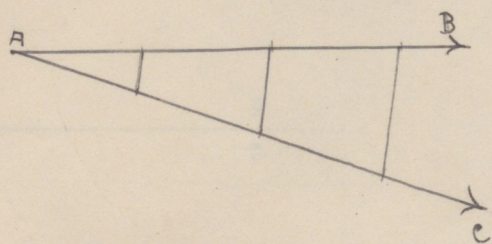
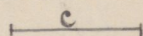
LÕIKUDE KORRUTAMINE.

m. 4.

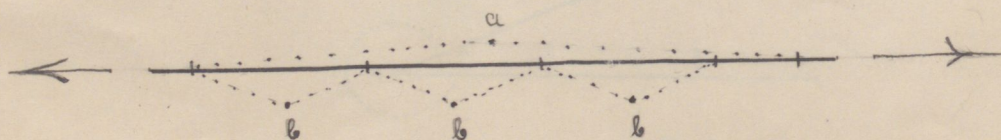
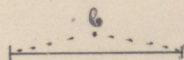
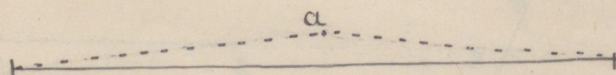


(LÕIKUDE JAGAMINE).

AB: 3.



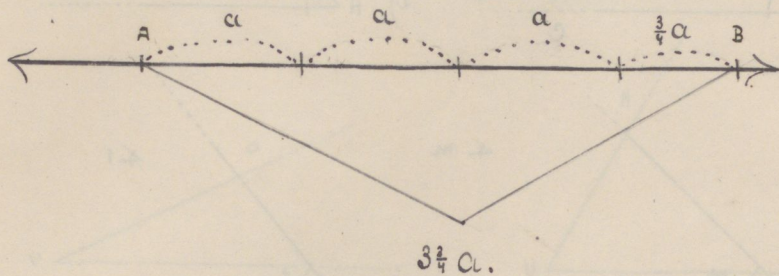
b) mahutamise.



Vastus: $a:b = 3\frac{1}{2}$.

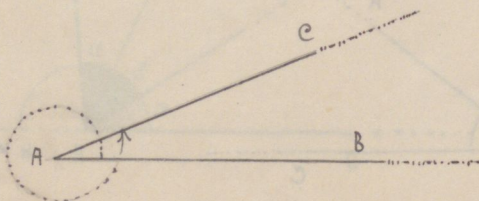
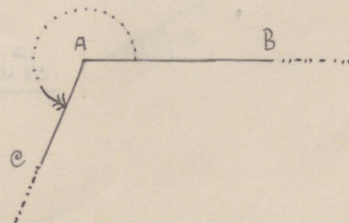
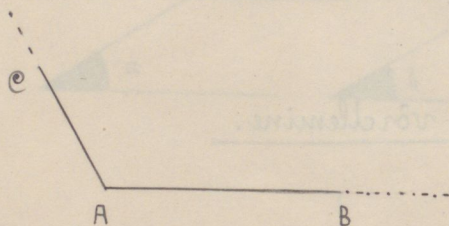
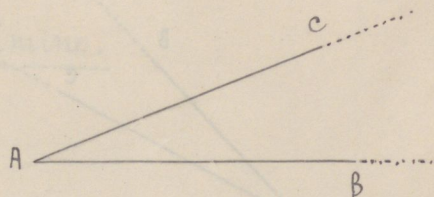
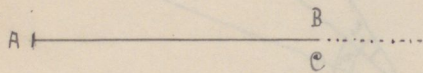
$3\frac{3}{4} \cdot a.$

a

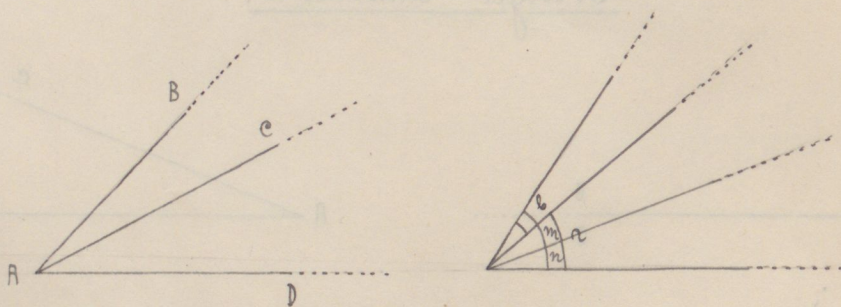
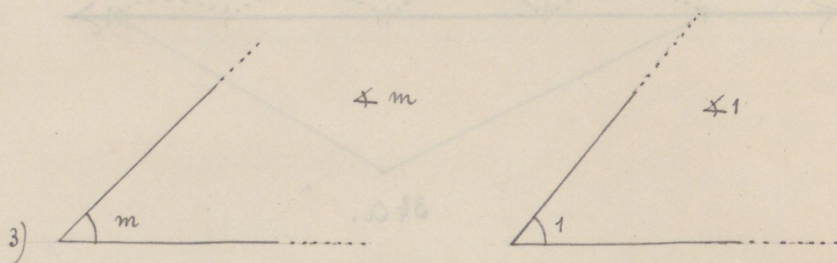
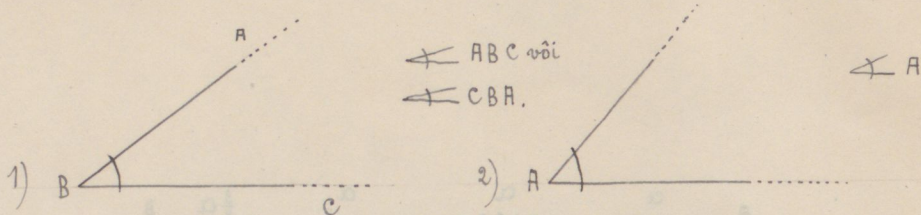


Нужна теорема.

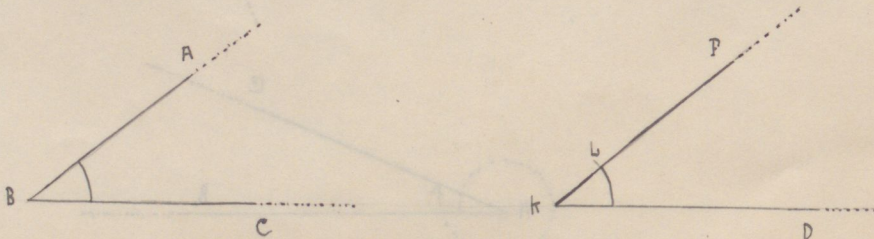
20-IX-26.



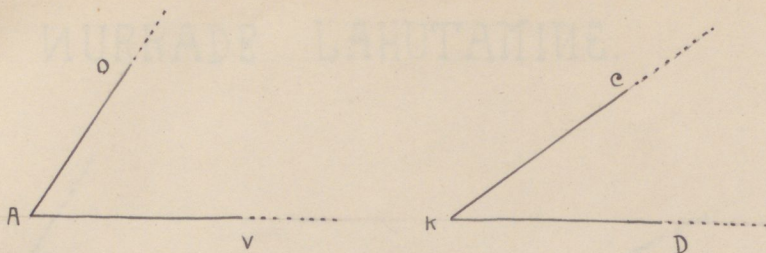
Nurga tähistamine.



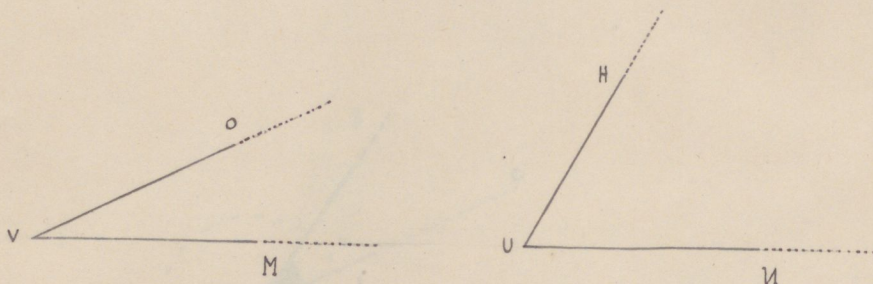
Nurkade võrdlemine.



$$\sphericalangle ABC = \sphericalangle PKD.$$



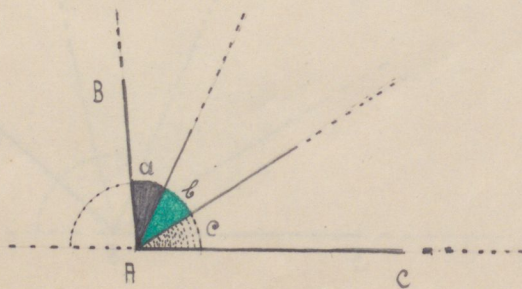
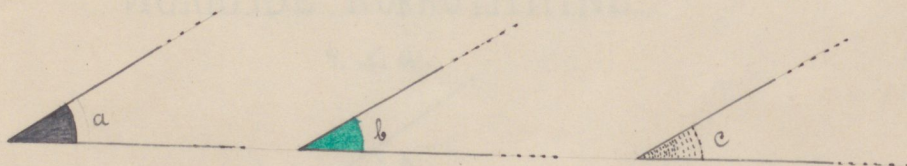
$$\angle OAV > \angle CKD.$$



$$\angle OVM < \angle HUN.$$

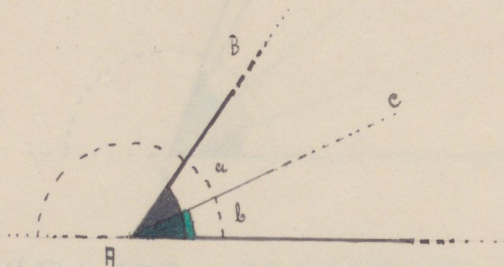
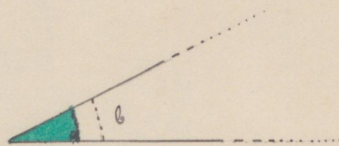
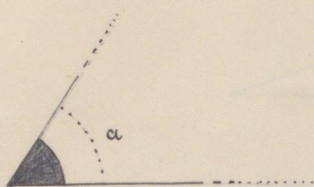
Nurkade liitmine.

21.IX.26.



$$\text{Vastus: } \angle a + \angle b + \angle c = \angle BAC.$$

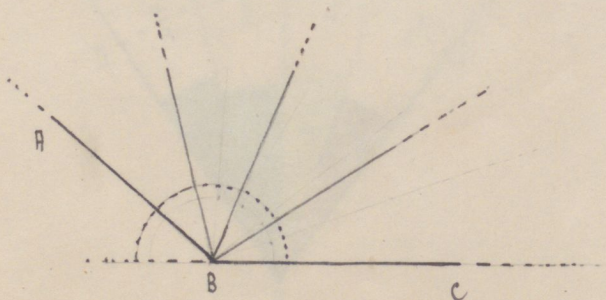
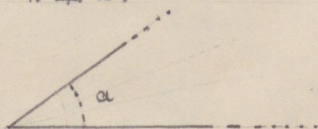
MURRADE LAHUTAMINE.



Vastus: $\angle a \rightarrow \angle b = \angle BAC$.

MURRADE KORRUTAMINE.

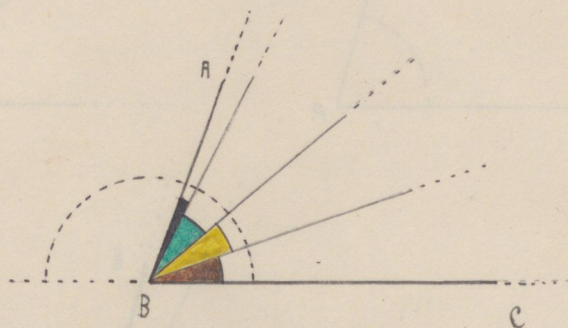
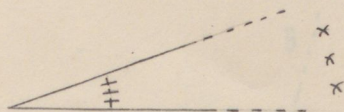
4. $\angle a$.



Vastus: 4. $\angle a = \angle ABC$.

$3\frac{3}{4}$, $\times \alpha$.

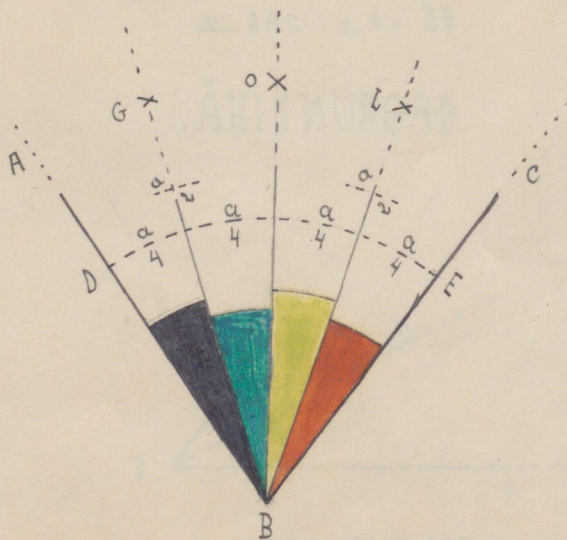
22. IX. 26.



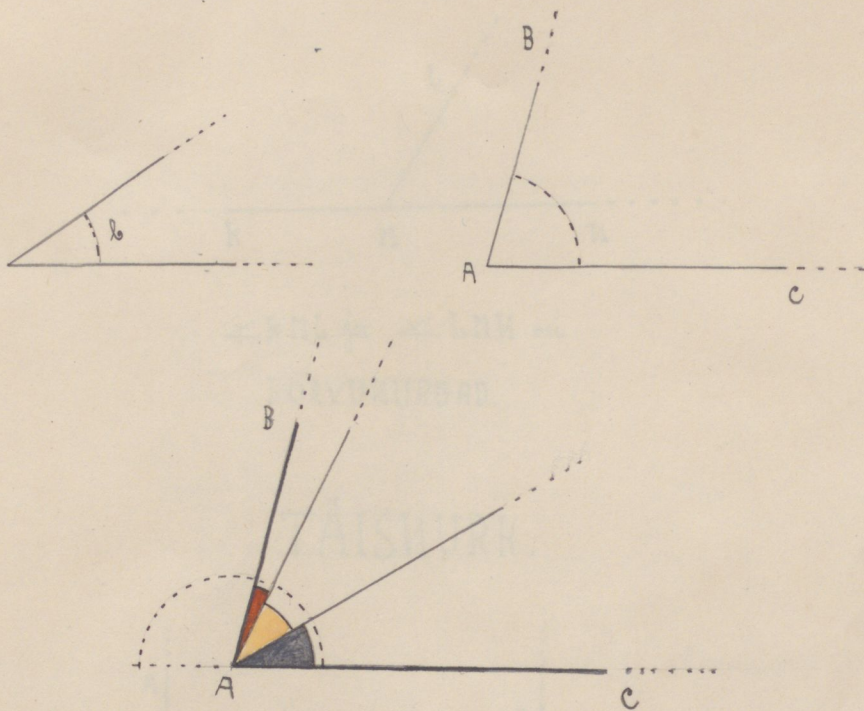
MURKADE JAGAMINE.

A) JAGAMINE.

$\times ABC:4$.

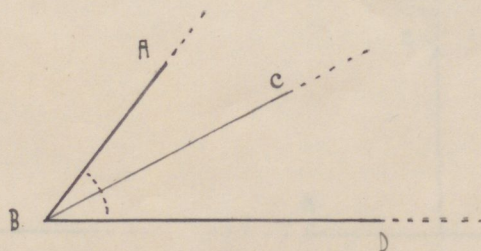


B) MAHUTAMINE.



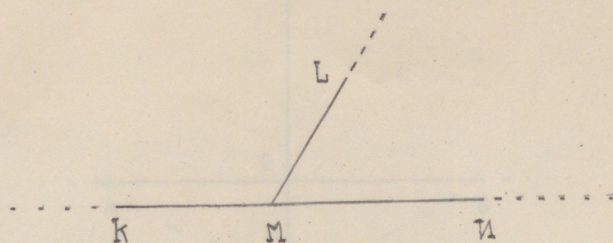
$$\angle BAC : \angle b = 2\frac{1}{3}.$$

LÄHISWURGAD.



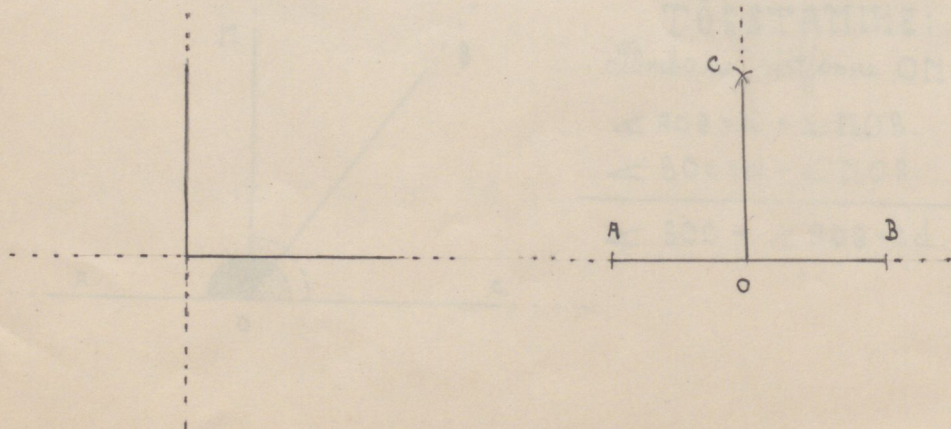
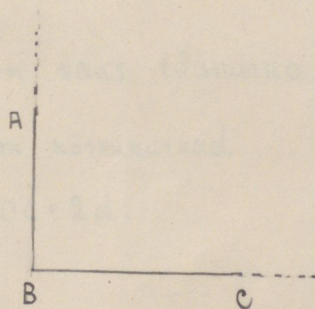
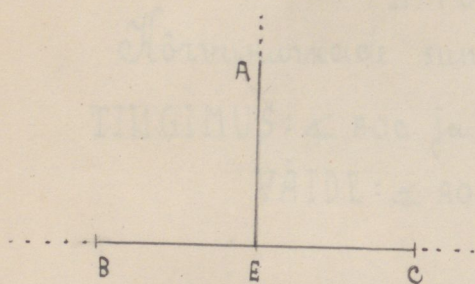
$\angle ABC$ ja $\angle CBD$ on
LÄHISWURGAD.

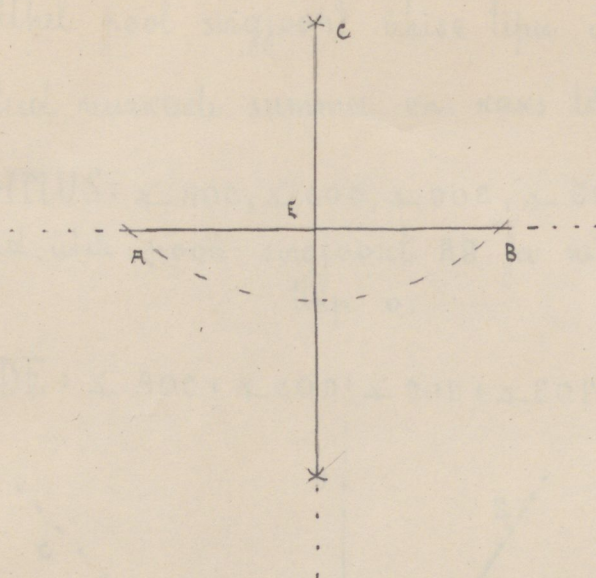
KÕRVUURGAD.



$\angle KML$ ja $\angle LMN$ on
KÕRVUURGAD.

TÄISNURK.



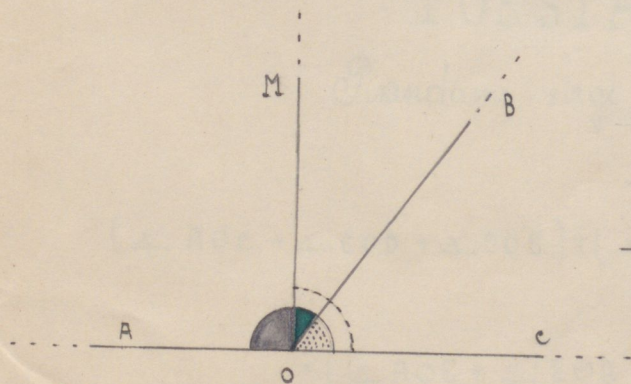


LAUSE:

Kõrvunurkade summa on kaks täisnurka.

TINGIMUS: $\angle AOC$ ja $\angle BOC$ on kõrvunurkad

VÄIDE: $\angle AOC + \angle BOC = 2d$.



TÕESTAMINE:

Tõmbame ristjoone OM.

$$\angle AOB = d + \angle MOB.$$

$$\angle BOC = d - \angle MOB.$$

$$\angle BOC + \angle AOB = 2d.$$

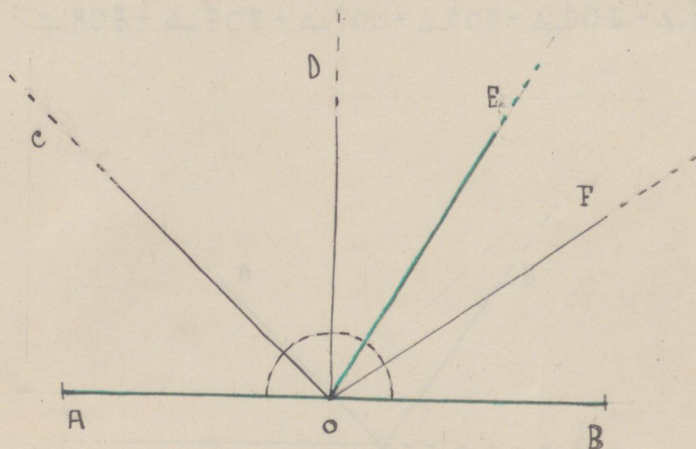
I JÄRELDUS.

Ühel pool sirgjoont ühise tipu ümber
asetatud nurkade summa on kaks täisnurka.

27-IX-26.

TINGIMUS: $\angle AOC$, $\angle COD$, $\angle DOE$, $\angle EOF$, $\angle FOB$ on
asetatud ühe poole sirgjoont AB ja neil on ühine
tipp o.

VÄIDE: $\angle AOC + \angle COD + \angle DOE + \angle EOF + \angle FOB = 2d$.



TÕESTAMINE.

Pikendame sirge OE, saame:

$$(\angle AOC + \angle COD + \angle DOE) + (\angle EOF + \angle FOB) =$$

$$= (\angle AOE + \angle EOB) = 2d.$$

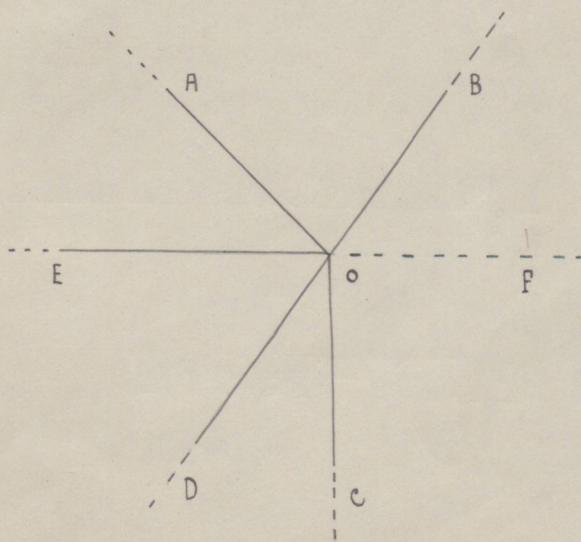
I. JÄRELDUS.

LAUSE:

Ühise tipu ümber asetatud nurkade
summa on neli täisnurka.

TINGIMUS: $\angle AOB, \angle BOF, \angle FOC, \angle COD, \angle DOE, \angle EOA$ on
asetatud ühise tipu ümber.

VÄIDE: $\angle AOB + \angle BOF + \angle FOC + \angle COD + \angle DOE + \angle EOA = 4d.$



TÕESTAMINE:

Fixindame juhusliku külje, näit EO, saame: 8. Kl 24.

$$(\angle EOA + \angle AOB + \angle BOF) + (\angle FOC + \angle COD + \angle DOE) = 2d + 2d = 4d.$$

K 45604-1