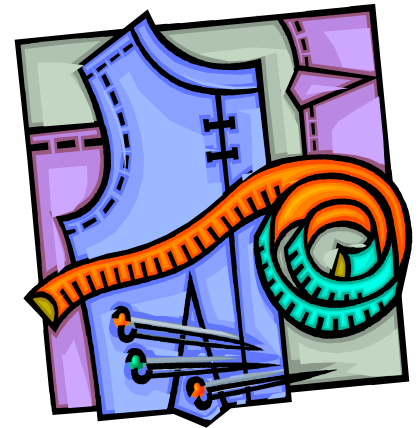


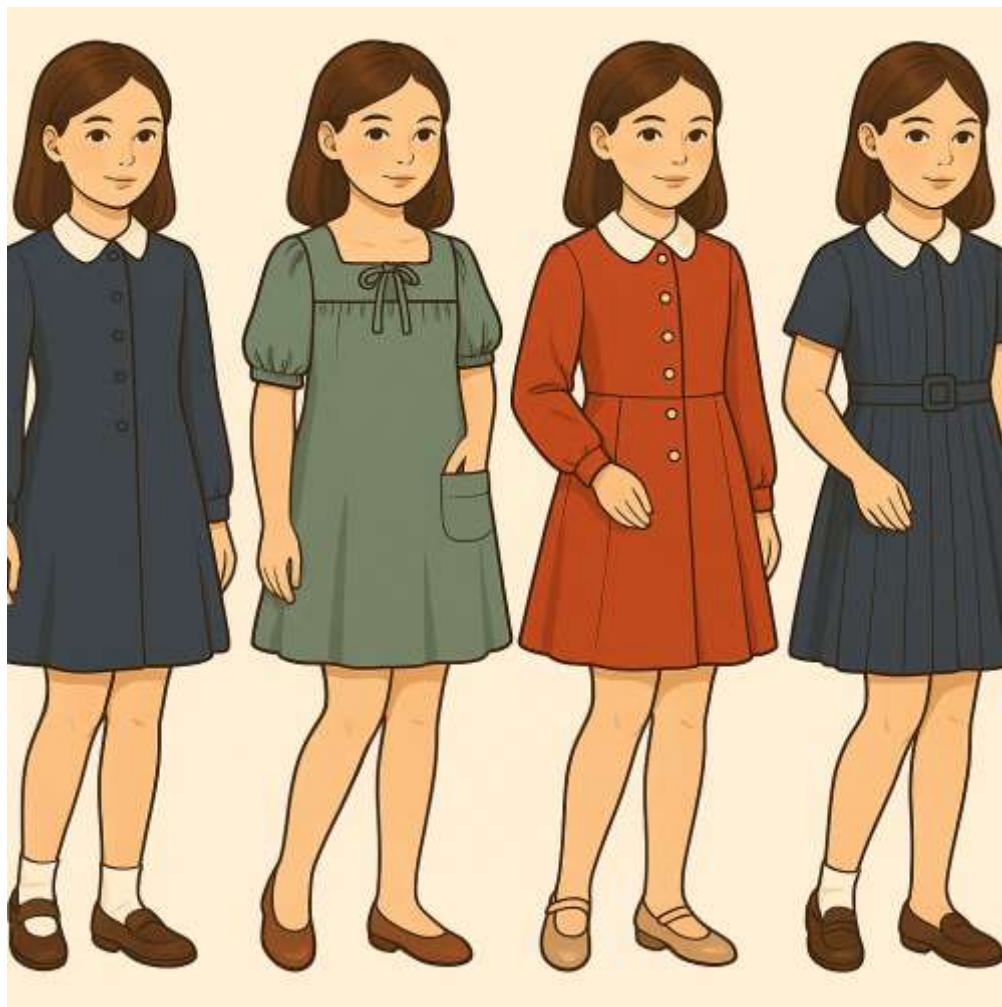
9-Mavzu: Maktab yoshidagi qiz bolalar ko'ylagi asos chizmasini konstruksiyalash va modellashtirish

REJA:

1. Maktab yoshidagi qiz bolalar ko'ylagi asos chizmasini chizish uchun asosiy ma'lumotlar
2. Baza to'rini qurish.
3. Ort bo'lakni chizish
4. Old bo'lakni chizish
5. Yeng chizmasini chizish
6. Yoqa chizmasini chizish



MAKTAB YOSHIDAGI QIZ BOLALAR KO'YLAGI MODELLARI



MAKTAB YOSHIDAGI QIZ BOLALAR KO'YLAGI MODELLARI



Maktab yoshidagi qiz bolalar ko'ylagi chizmasini chizih uchun asosiy o'lchovlar

(tavsiya etilayotgan ko'ylak o'lchovi 152-38).

| № | O'lchov belgisi | O'lchov nomi | Qiymati, sm |
|----|-----------------|--------------------------------|-------------|
| 1 | $C_{bo'y}$ | Bo'yin yarim aylanasi | 16,1 |
| 2 | C_{kI} | I ko'krak yarim aylanasi | 37,8 |
| 3 | C_{kII} | II ko'krak yarim aylanasi | 38 |
| 4 | C_{bel} | Bel yarim aylanasi | 27,7 |
| 5 | $C_{bo'k}$ | Bo'ksa yarim aylanasi | 40 |
| 6 | K_k | Ko'krak kengligi | 14,8 |
| 7 | K_{or} | Orqa kengligi | 15,7 |
| 8 | K_{yel} | Yelka kengligi | 12,4 |
| 9 | $U_{or.bel}$ | Orqaning belgacha uzunligi | 40,1 |
| 10 | B_k | Ko'krak balandligi | 23,0 |
| 11 | $U_{ol.bel}$ | Oldning belgacha uzunligi | 39,7 |
| 12 | $B_{qiya yel.}$ | Orqaning qiya yelka balandligi | 40,0 |
| 13 | $B_{or.o'miz}$ | Orqa o'miz chuqurligi | 18,9 |
| 14 | $U_{qo'l}$ | Qo'lning uzunligi | 50,8 |
| 15 | O_{yel} | Yelka aylanasi | 23,1 |
| 16 | O_{bil} | Bilak aylanasi | 14,6 |

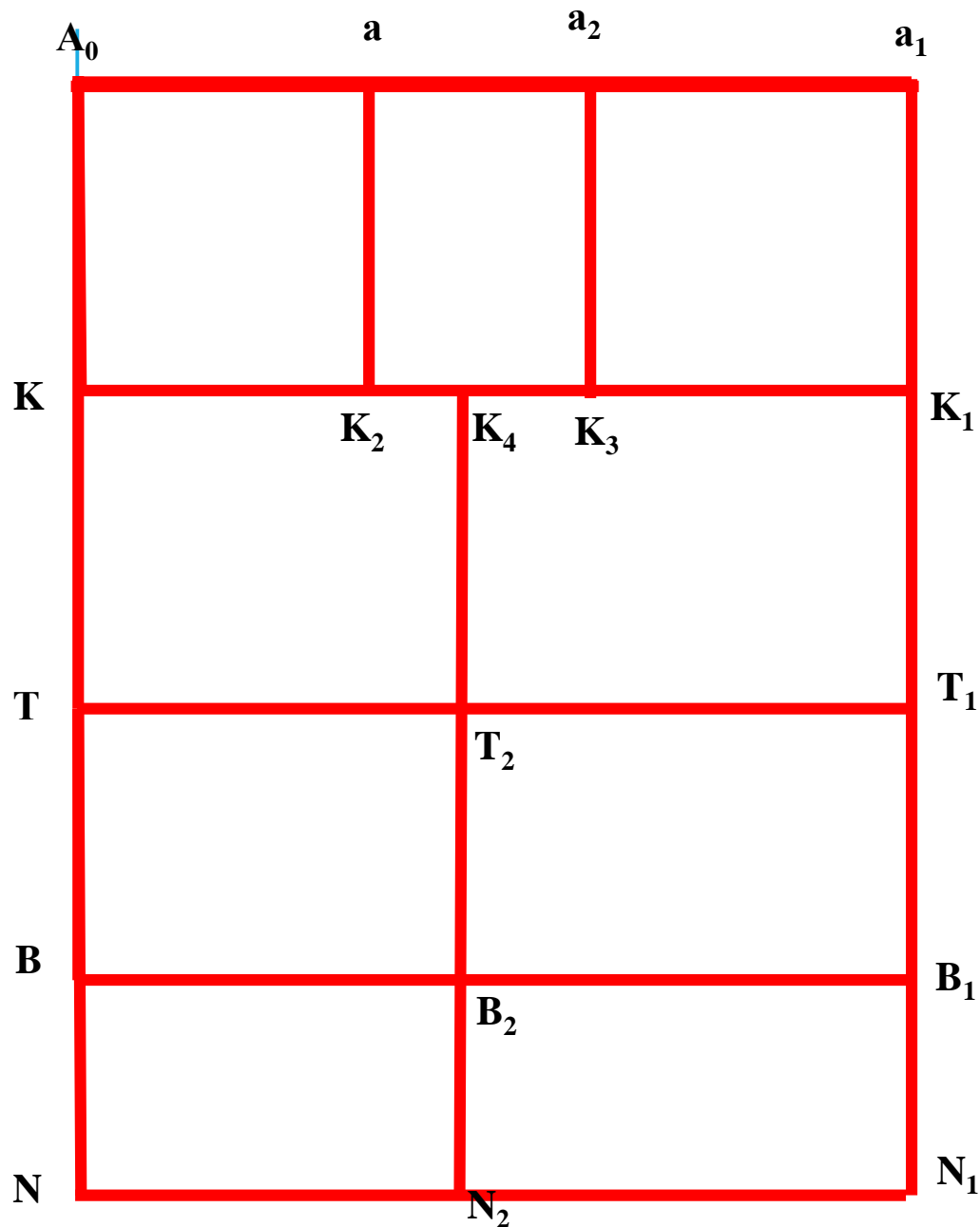
Maktab yoshidagi qiz bolalar ko'ylagi asos chizmasini chizish uchun qo'shimcha haqlar

| T/r | Qo'shimcha haq belgilari | Qo'shimcha haq kattaliklari, sm |
|------------|---------------------------------|--|
| 1 | P_k | 5 |
| 2 | P_{bel} | 3 |
| 3 | $P_{bo'k}$ | 2 |
| 4 | $P_{or.k.}$ | 1 |
| 5 | $P_{ol.k.}$ | 1-1,5 |
| 6 | $P_{or.b.}$ | 0,5 |
| 7 | $P_{ol.b.}$ | 0,5 |
| 8 | $P_{o'm.k.}$ | 0,7-1 |
| 9 | $P_{yel.ay.}$ | 6 |
| 10 | $P_{o'm.b.}$ | 2 |
| 11 | $P_{yel.ayl}$ | 6 |

MAKTAB YOSHIDAGI QIZ BOLALAR KO'YLAGI KONSTRUKSIYASI CHIZMASINING HISOBI

| T/r | Konstruktiv bo'lak belgisi | Siljitish yo'nalishi | Hisob formulasi va hisoblar | Konstruktiv bo'lak qiymati, sm |
|------------------------------------|--|----------------------|--|--------------------------------|
| Ko'ylak baza to'rini qurish | | | | |
| 1 | A_0a_1 | o'ngga | $A_0a_1 = C_{kII} + P_k = 38 + 5$ | 43 |
| 2 | A_0T | pastga | $A_0T = U_{or.bel} + P_{or.bel} = 40,1 + 0,5$ | 40,6 |
| 3 | A_0K | pastga | $A_0K = B_{or.o'm} + P_{o'm.b} + P_{or.b} = 18,9 + 2 + 0,5$ | 21,4 |
| 4 | TN | pastga | $TN = U_{yu}$ | 55 |
| 5 | TB | pastga | $TB = U_{or.bl} : 2 - 2 = 40,1 : 2 - 2$ | 18,0 |
| 6 | Ko'krak, bel, bo'ksa, etak chizig'idan gorizontal chiziq o'tkaziladi; kesishgan joylarga K_1, T_1, B_1, N_1 nuqtalar belgilab qo'yiladi. | | | |
| 7 | A_0a | o'ngga | $A_0a = K_{or} + P_{or.k} = 15,7 + 1$ | 16,7 |
| 8 | Pastga vertikal tushirib, kesishgan joyga K_2 nuqta qo'yiladi. | | | |
| 9 | a_1a_2 | chapga | $a_1a_2 = K_k + (C_{kII} - C_{kI}) + P_k = 14,8 + (38 - 37,8) + 1,5$ | 16,5 |
| 10 | aa_2 | o'ngga | $aa_2 = A_0a_1 - (A_0a + a_1a_2)$ | 9,8 |
| | | | | |

KO'YLAQ BAZA TO'RINI CHIZISH



$$A_0a_1 = C_{kII} + P_k = 38 + 5 = 43 \text{ sm}$$

$$A_0T = U_{or.bel} + P_{or.bel} = 40,1 + 0,5 = 40,6 \text{ sm}$$

$$A_0K = B_{or.o'm} + P_{o'm.b} + P_{or.b} = 18,9 + 2 + 0,5 = 21,4 \text{ sm}$$

$$TN = U_{yu} - 55 \text{ sm}$$

$$TB = U_{or.bl} : 2 - 2 = 40,1 : 2 - 2 = 18 \text{ sm}$$

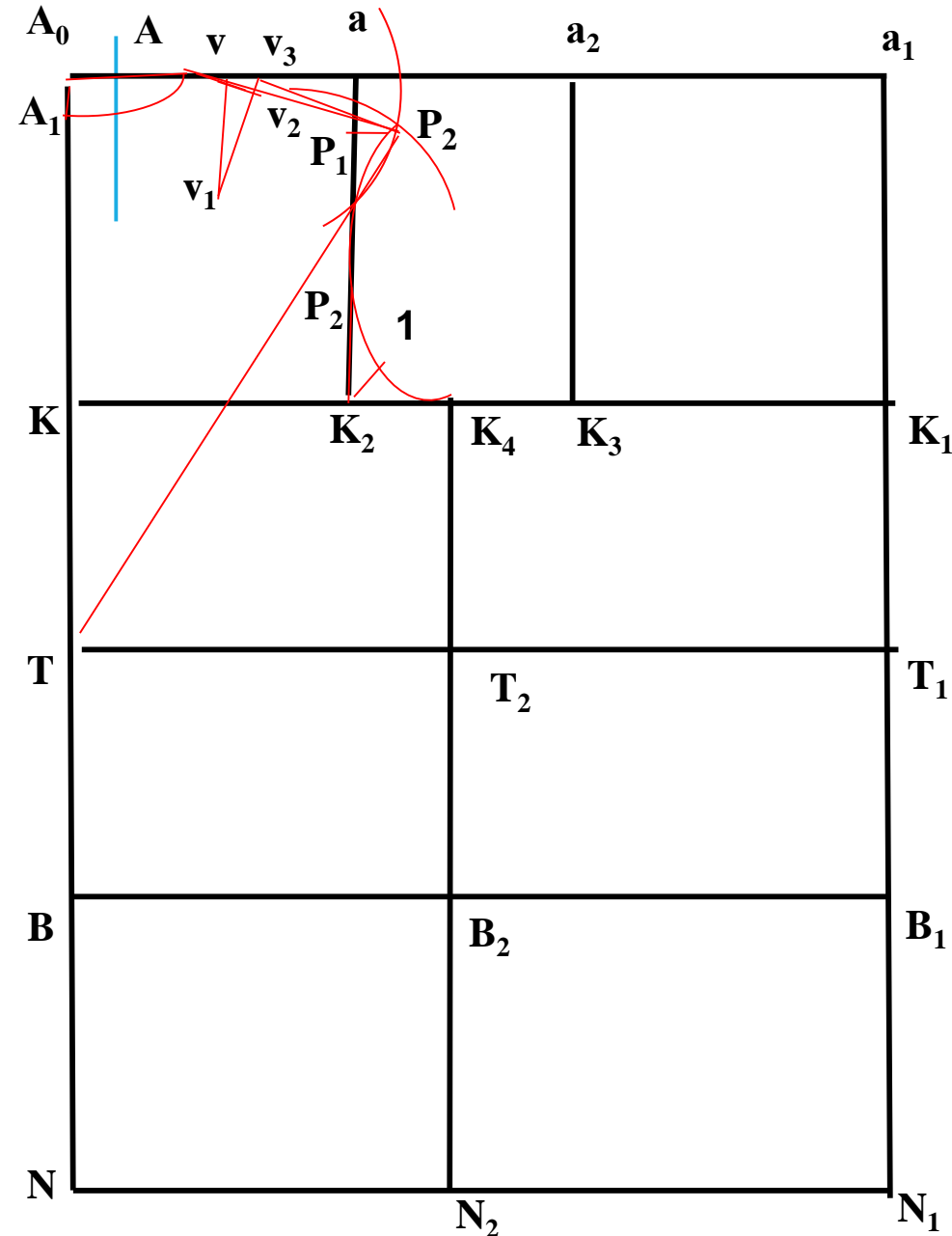
$$A_0a = K_{or} + P_{or.k} = 15,7 + 1 = 16,7 \text{ sm}$$

$$a_1a_2 = K_k + (C_{kII} - C_{kI}) + P_k = 14,8 + (38 - 37,8) + 1,5 = 16,5 \text{ sm}$$

ORT BO'LAK CHIZMASINI CHIZISH

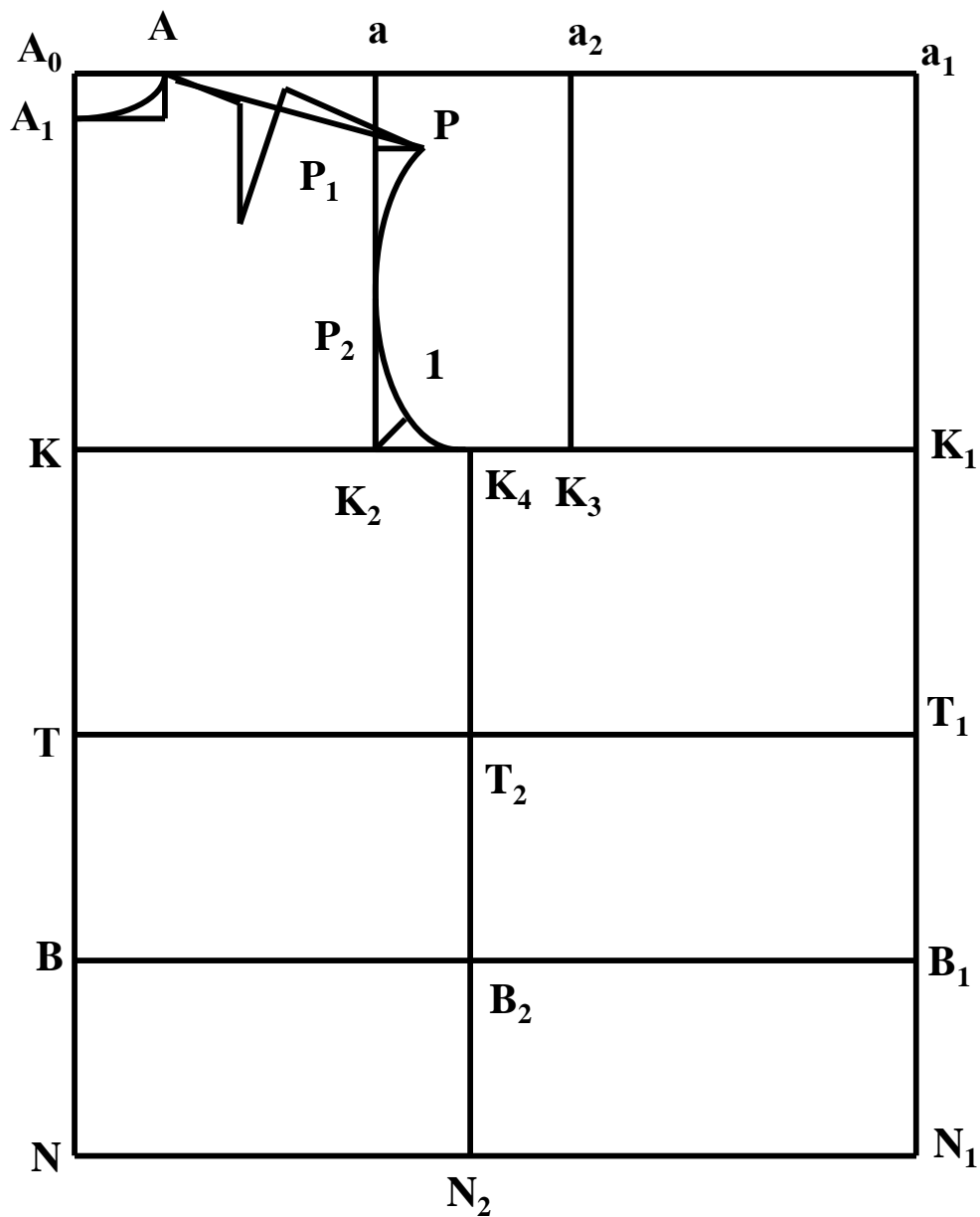
| T/r | Konstruktiv bo'lak belgisi | Siljitish yo'nalishi | Hisob formulasi va hisoblar | Konstruktiv bo'lak qiymati, sm |
|-----|--|----------------------|---|--------------------------------|
| 11 | A_oA | o'ngga | $A_oA = C_{bo'y} : 3 + P_{o'm.k} = 16,1 : 3 + 1$ | 5,4 |
| 12 | A_oA_1 | pastga | $A_oA_1 = A_oA : 3 = 5,4 : 3$ | 1,8 |
| 13 | TP | qiya yuqoriga | $TP = B_{qiya\ yel} + P_{or.bel} = 40,0 + 0,5$ | 40,5 |
| 14 | AP | o'ngga | $AP = K_{yel} + 2^* = 12,4 + 2$ | 14,4 |
| 15 | Av | o'ngga | $Av = K_{yel} : 3 = 12,4 : 3$ | 4,3 |
| 16 | vv_1 | pastga | $vv_1 = 7 - 9\text{ sm;}$ | 7 |
| 17 | vv_2 | o'ngga | $vv_2 = 2 - 0,5^{**}$ | 1,5 |
| 18 | v_1v_3 | qiya yuqoriga | $v_1v_3 = v_1v$ | 7 |
| 19 | <p>Vitachka tomonlarini chizib, yelka chizig'i uzil-kesil shakllantiriladi.</p> <p>P nuqtadan aK_2 chizig'iga perpendikulyar o'tkaziladi, kesishgan joyga P_1 nuqta qo'yiladi.</p> | | | |
| 20 | K_2K_4 | o'ngga | $K_2K_4 = K_4K_3$ | 6 |
| 21 | K_2P_2 | yuqoriga | $K_2P_2 = K_2P_1 : 3 + 2$ | (chizmadan o'lchanadi). |
| 22 | K_21 | bissektrisa | $K_21 = 0,2 \times K_2K_3 + 0,5 = 0,2 \times 9,8 + 0,5$ | 2,1 |
| 23 | P, P_2 , 1, K_4 nuqtalar orqali ort bo'lak yeng o'miz chizig'i o'tkaziladi. | | | |

ORT BO'LAK CHIZMASINI CHIZISH



| |
|--|
| $A_oA = C_{bo'y} : 3 + P_{o'm.k} = 16,1 : 3 + 1 = 5,4 \text{ sm}$ |
| $A_oA_1 = A_oA : 3 = 5,4 : 3 = 1,8 \text{ sm}$ |
| $TP = B_{qiya \text{ yel}} + P_{or.bel} = 40,0 + 0,5 = 40,5 \text{ sm}$ |
| $AP = K_{yel} + 2^* = 12,4 + 2 = 14,4 \text{ sm}$ |
| $Av = K_{yel} : 3 = 12,4 : 3 = 4,3 \text{ sm}$ |
| $vv_1 = 7 - 9 \text{ sm};$ |
| $vv_2 = 2 - 0,5^{**} = 1,5 \text{ sm}$ |
| $v_1v_3 = v_1v$ |
| $K_2K_4 = K_4K_3$ |
| $K_2P_2 = K_2P_1 : 3 + 2$ |
| $K_21 = 0,2 \times K_2K_3 + 0,5 = 0,2 \times 9,8 + 0,5 = 2,1 \text{ sm}$ |

ORT BO'LAK CHIZMASI



OLD BO'LAK CHIZMASINI CHIZISH

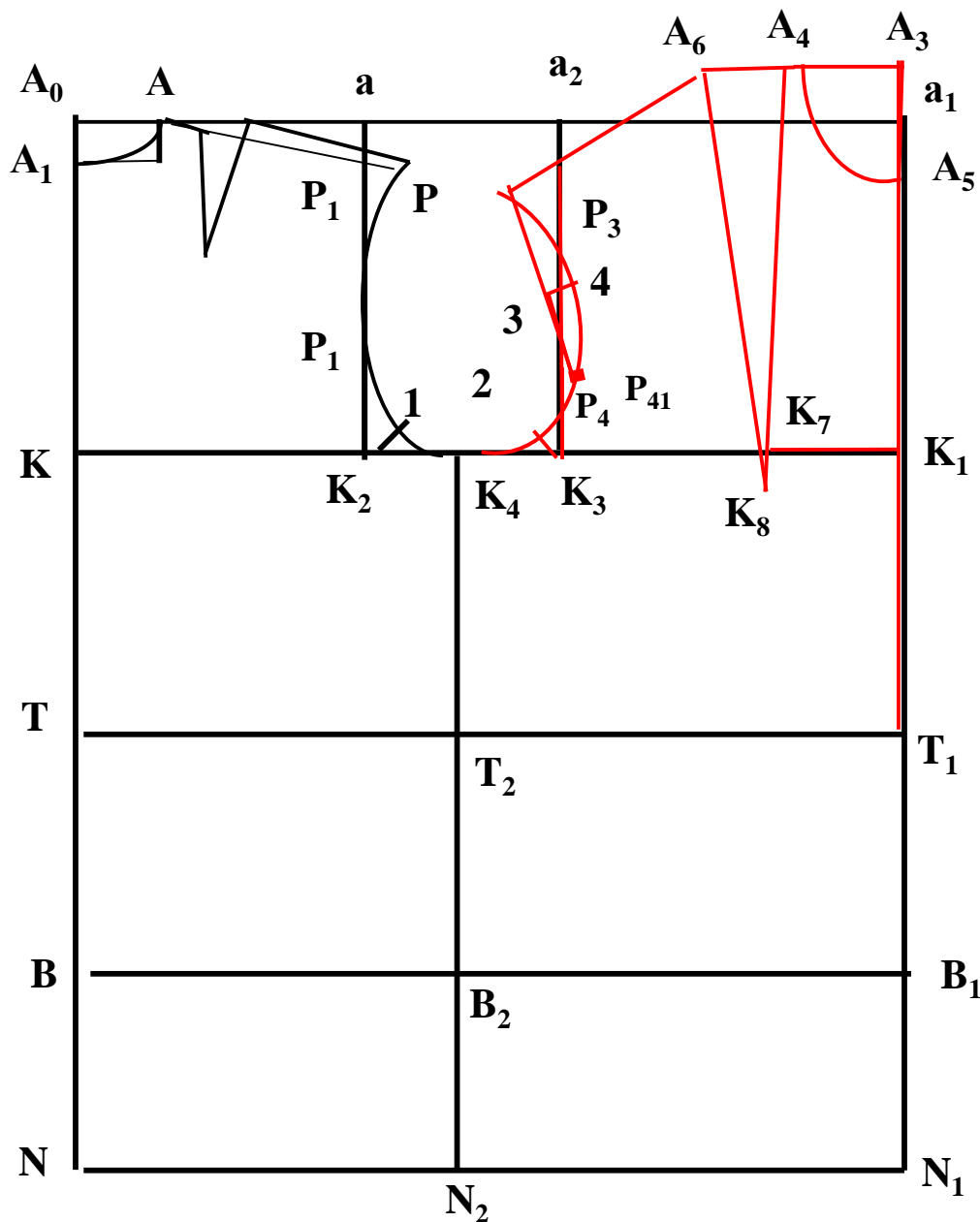
| T/r | Konstruktiv bo'lak belgisi | Siljitish yo'nalishi | Hisob formulasi va hisoblar | Konstruktiv bo'lak qiymati, sm |
|-----|----------------------------|----------------------|--|--------------------------------|
| 24 | T_1A_3 | yuqoriga | $T_1A_3 = U_{ol.bel} + P_{ol.bel} = 39,7 + 0,5$ | 40,2 |
| 25 | A_3A_4 | chapga | $A_3A_4 = A_oA$ | 5,4 |
| 26 | A_3A_5 | pastga | $A_3A_5 = A_3A_4 + 1 = 5,4 + 1$ | 6,4 |
| 27 | K_1K_7 | chapga | $K_1K_7 = Mk$ | 7,5 |
| 28 | A_4K_8 | pastga | $A_4K_8 = Bk$ | 23,0 |
| 29 | A_4A_6 | chapga | $A_4A_6 = 2 \times (C_{k2} - C_{k1}) + 0,5^{***} = 2 \times (38 - 37,8) + 0,5$ | 0,9 |
| 30 | K_8A_6 | yuqoriga | $K_8A_6 = K_8A_4$ | 26,2 |
| 31 | K_3P_3 | yuqoriga | $K_3P_3 = K_2P_1$ | Chizmadan o'lchanadi |
| 32 | K_3P_4 | yuqoriga | $K_3P_4 = K_3P_3 : 3$ | Chizmadan o'lchanadi |
| 33 | P_4P_{41} | o'ngga | $P_4P_{41} = 0,6 \text{ sm.}$ | 0,6 |
| 34 | $P_{41}P_5$ | qiya yuqoriga | $P_{41}P_5 = P_4P_3$ | Chizmadan o'lchanadi |
| 35 | A_6P_{51} | chapga | $A_6P_{51} = Kyel$ | 12,4 |

OLD BO'LAK CHIZMASINI CHIZISH (DAVOMI)

| T/r | Konstruktiv bo'lak belgisi | Siljitish yo'nalishi | Hisob formulasi va hisoblar | Konstruktiv bo'lak qiymati, sm |
|-----|---|----------------------|---|--------------------------------|
| 36 | Yordamchi chiziq bilan P_5P_4 nuqtalar birlashtiriladi; bu chiziq ikkiga bo'linadi. Nuqta 3 hosil bo'ladi. Bunga uzunligi 1 sm bo'lgan perpendikulyar o'tkaziladi. Nuqta 4 hosil bo'ladi. | | | |
| 37 | P_5P_{51} | chapga | $P_5P_{51} = 0,5 \text{ sm}$ | 0,5 |
| 38 | K_32 | bissektrisa | $K_32 = 0,2 \times K_2K_3 = 0,2 \times 9,8$ | 2,0 |
| 39 | Old bo'lak yeng o'miz chizig'i $P_{51}, 4, P_4, 2, K_4, K_6$ nuqtalar o'rqali o'tkaziladi. | | | |

OLD BO'LAK CHIZMASINI CHIZISH

| |
|---|
| $T_1A_3 = U_{ol.bel} + P_{ol.bel} = 39,7 + 0,5 = 40,2 \text{ sm}$ |
| $A_3A_4 = A_oA = 5,4 \text{ sm}$ |
| $A_3A_5 = A_3A_4 + 1 = 5,4 + 1 = 6,4 \text{ sm}$ |
| $K_1K_7 = Mk = 7,5 \text{ sm}$ |
| $A_4K_8 = Bk = 23,0 \text{ sm}$ |
| $A_4A_6 = 2 \times (C_{k2} - C_{k1}) + 0,5^{***} = 2 \times (38 - 37,8) + 0,5 = 0,9 \text{ sm}$ |
| $K_8A_6 = K_8A_4$ |
| $K_3P_3 = K_2P_1$ |
| $K_3P_4 = K_3P_3 : 3$ |
| $P_4P_{41} = 0,6 \text{ sm.}$ |
| $P_{41}P_5 = P_4P_3$ |
| $A_6P_{51} = Kyel = 12,4 \text{ sm}$ |
| $P_5P_{51} = 0,5 \text{ sm}$ |
| $K_32 = 0,2 \times K_2K_3 = 0,2 \times 9,8 = 2 \text{ sm}$ |



BEL QISMIDAGI VITACHKALARNI CHIZISH

| T/r | Konstruktiv bo'lak belgisi | Siljitish yo'nalishi | Hisob formulasi va hisoblar | Konstruktiv bo'lak qiymati, sm |
|-----|---|----------------------|---|--------------------------------|
| 40 | | | $EV = TT_1 - (C_{bel} + P_{bel}) = 43 - (27,7+3)$ | 12,3 |
| 41 | T_3T_4 | o'ngga | $T_3T_4 = 0,5 \times EV = 0,5 \times 12,3$ | 6,2 |
| 42 | $T_2T_3=T_2T_4$ | o'ngga - chapga | $T_2T_3 = T_2T_4 = 6,2 : 2$ | 3,1 |
| 43 | T_6T_7 | o'ngga | $T_6T_7 = 0,3 \times Ev = 0,3 \times 12,3$ | 3,7 |
| 44 | TT_5 | o'ngga | $TT_5 = KK_2 : 2 = 16,7 : 2$ | 8,4 |
| 45 | $T_5T_6=T_5T_7$ | o'ngga - chapga | $T_5T_6 = T_5T_7 = 3,7 : 2$ | 1,9 |
| 46 | T_9T_{10} | o'ngga | $T_9T_{10} = 0,2 \times EV = 0,2 \times 12,3$ | 2,4 |
| 47 | T_1T_8 | chapga | $T_1T_8 = K_1K_7;$ | 7,5 |
| 48 | $T_8T_9=T_8T_{10}$ | o'ngga - chapga | $T_8T_9 = T_8T_{10} = 2,4 : 2$ | 1,2 |
| 49 | Ort tomondagi vitachkaning yuqori tomoni ko'krak chizig'idan 3 sm pastda, ostki tomoni bo'ksa chizig'idan 3 sm yuqorida bo'ladi; old tomondagi vitachkaning yuqori tomoni K_8 nuqtasidan 3 sm pastda, pastki tomoni co'ksa chizig'idan 4-5 sm yuqorida bo'ladi. | | | |
| 50 | B_3B_4 | chapga | $B_3B_4 = (C_{bo'k} + P_{bo'k}) - BB_1 = (40+3)-43$ | 0 |
| 51 | $N_2N_3=N_2N_4$ | o'ngga - chapga | $N_2N_3 = N_2N_4$ | 4-5 |

BEL QISMIDAGI VITACHKALARNI CHIZISH

$$T_3T_4 = 0,5 \times EV = 0,5 \times 12,3 = 6,2 \text{ sm}$$

$$T_2T_3 = T_2T_4 = 6,2 : 2 = 3,1 \text{ sm}$$

$$T_6T_7 = 0,3 \times Ev = 0,3 \times 12,3 = 3,7 \text{ sm}$$

$$TT_5 = KK_2 : 2 = 16,7 : 2 = 8,4 \text{ sm}$$

$$T_5T_6 = T_5T_7 = 3,7 : 2 = 1,9 \text{ sm}$$

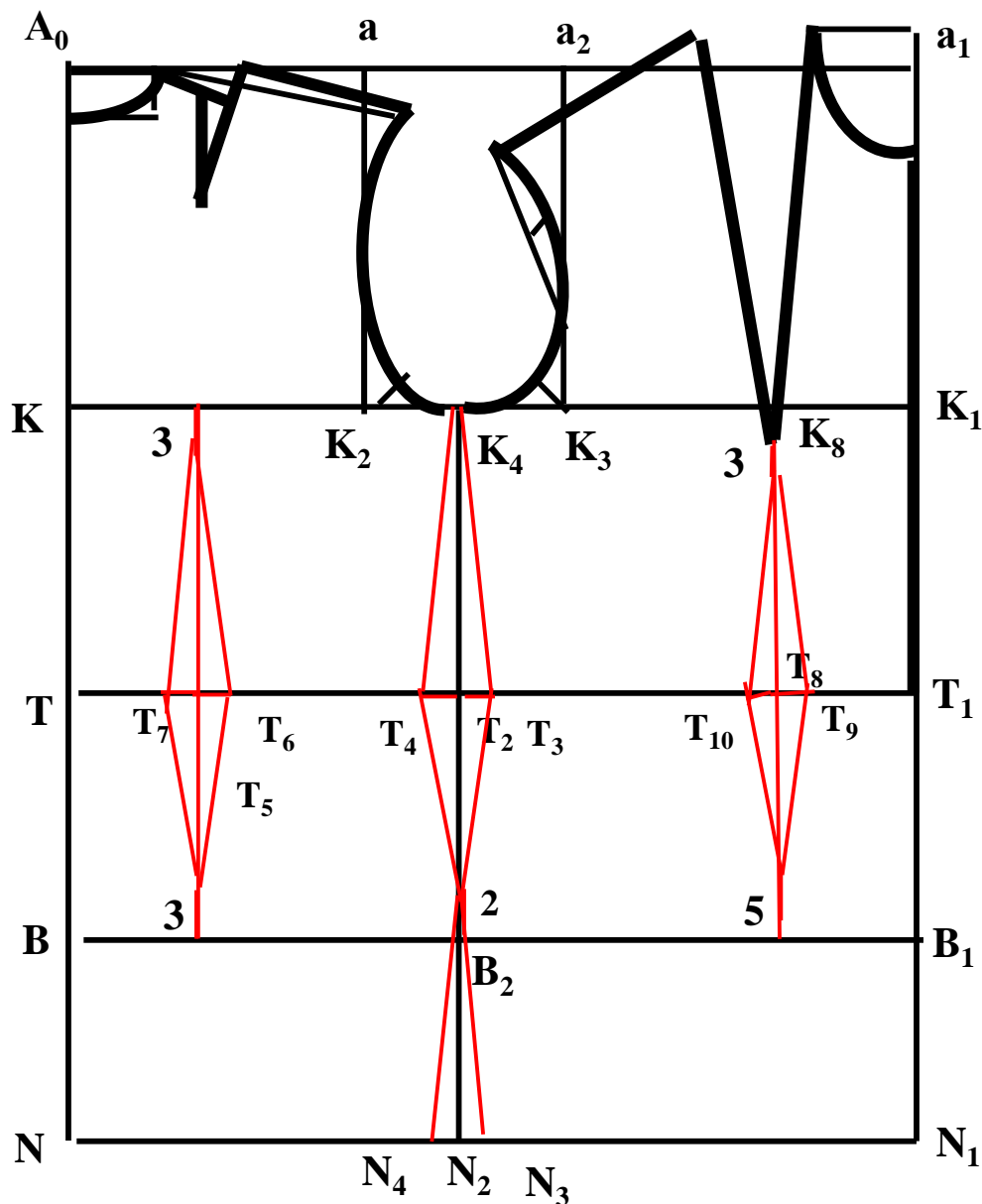
$$T_9T_{10} = 0,2 \times EV = 0,2 \times 12,3 = 2,4 \text{ sm}$$

$$T_1T_8 = K_1K_7;$$

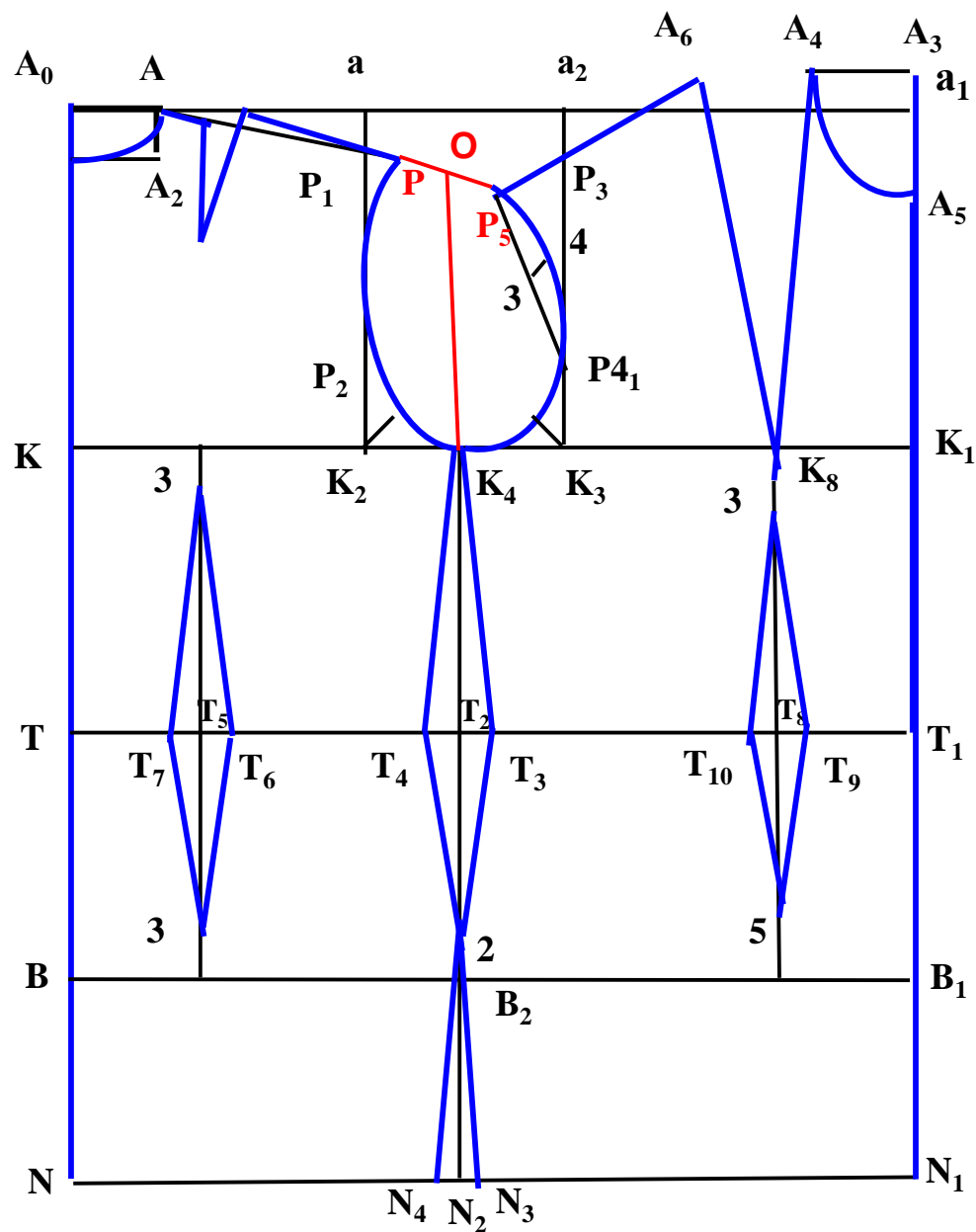
$$T_8T_9 = T_8T_{10} = 2,4 : 2 = 1,2 \text{ sm}$$

$$B_3B_4 = (C_{bo'k} + P_{bo'k}) - BB_1 = (40+3) - 43 = 0$$

$$N_2N_3 = N_2N_4 = 4-5 \text{ sm}$$



Ko'ylak asos chizmasida P va P_5 nuqtalar tutashtirilib, teng o'rtasi topiladi va O nuqta bilan belgilanadi. O va G_4 masofa o'lchanadi.



YENG KONSTRUKSIYASI CHIZMASINING HISOBI

| T/r | Konstrukti v bo'lak belgisi | Siljitish yo'nalishi | Hisob formulasi va hisoblar | Konstrukti v bo'lak qiymati, sm |
|--|--|-------------------------|---|--|
| Yeng asos chizmasining to'r qismini chizish | | | | |
| 1 | OO ₁ | o'ngga | $OO_1 = O_{yel} + P_{yel.ayl} = 23,1 + 6$ | 29,1 |
| 2 | OP | pastga | OP = OO ₁ (ort bo'lak chizmasidagi yeng o'mizining vertikal diametric) – 2,5 | chizmadan olinadi |
| 3 | ON | pastga | ON = U _{yeng} | 50,8 |
| 4 | OL | pastga | OL = ON:2+5 = 50,8:2+2 | 27,4 |
| 5 | Gorizontal chiziq o'tkazib, kesishgan joylar R ₁ , L ₁ , N ₁ nuqtalar bilan belgilanadi. | | | |
| 6 | OO ₂ | o'ngga | $OO_2 = OO_1:2+0,5 = 29,1:2+0,5$ | 15 |
| 7 | OO ₃ | o'ngga | OO ₃ = OO ₂ :2 | chizmadan olinadi |
| 8 | O ₁ O ₄ | chapga | O ₁ O ₄ =O ₁ O ₂ :2 | chizmadan olinadi |
| 9 | O ₂ , O ₃ , O ₄ nuqtalardan vertikal o'tkazib kesishgan joylarga P ₂ , L ₂ , N ₂ , P ₃ , L ₃ , N ₃ , P ₄ , L ₄ , N ₄ nuqtalar qo'yib belgilanadi | | | |

YENG KONSTRUKSIYASI CHIZMASINING HISOBI

| T/r | Konstrukti v bo'lak belgisi | Siljitish yo'nalishi | Hisob formulasi va hisoblar | Konstruktiv bo'lak qiymati, sm |
|-----------------------------|---|-------------------------|-----------------------------|--------------------------------------|
| Yeng boshini chizish | | | | |
| 10 | O_2O_5 | chapga | $O_2O_5 = O_2O_3:2;$ | chizmadan olinadi |
| 11 | O_2O_6 | o'ngga | $O_2O_6 = O_2O_4:2+1,5.$ | chizmadan olinadi |
| 12 | P_3O_7 | yuqoriga | $P_3O_7 = K_2P_2$ | chizmadan olinadi |
| 13 | P_4O_8 | yuqoriga | $P_4O_8 = K_3P_4$ | chizmadan olinadi |
| 14 | <p>O_7 nuqtadan chapga, O_8 nuqtadan o'ngga 0,5 sm dan o'lchab qo'yiladi.</p> <p>O_5, 0,5, R; O_6, 0,5, R nuqtalarni yordamchi to'g'ri chiziq bilan birlashtiriladi. P – 1 va P_1 – 2 qism ikkiga bo'linadi; 1 sm va 2-2,5 sm gat eng bo'lgan perpendikulyar o'tkaziladi; O_5 va O_6 burchaklar bissektrisasi bo'ylab 1-1,2 sm 1,5-2 sm gat eng kesma o'lchab qo'yiladi.</p> <p>Yordamchi va asosiy nuqtalar orqali yeng boshi ravon chiziqlar bilan shakli keltirib chiziladi.</p> <p>Yeng tirsakning o'tish qismi bo'ylab N_3 nuqtadan 1 sm uzaytiriladi. Yeng uchi old tomon o'tish qismi bo'ylab N_4 nuqtadan yuqoriga 1 sm qisqartiriladi. Yeng uchi ravon chiziq bilan chizib olinadi.</p> | | | |

Bir chokli yeng asosi chizmasinihg to'r qismini chizish



1. Yeng kengligi:

$$OO_1 = O_{yel} + P_{yel.ayl} = 23,1 + 6 = 29,1 \text{ sm}$$

Bir chokli yeng asosi chizmasinih to'r qismini chizish



1. Yeng kengligi:

$$OO_1 = O_{yel} + P_{yel.ayl} = 23,1 + 6$$

2. Yeng uzunligi;

$$ON = U_{yeng} = 50,8 \text{ sm}$$

Bir chokli yeng asosi chizmasinihg to'r qismini chizish



2. Yeng uzunligi;

$$ON = U_{\text{yeng}} = 50,8 \text{ sm}$$

3. Yeng boshining balandligi: $OP = OK_4$

(ort bo'lak chizmasidagi yeng o'mizining
vertikal diametri) – 2,5

Bir chokli yeng asosi chizmasinihg to'r qismini chizish

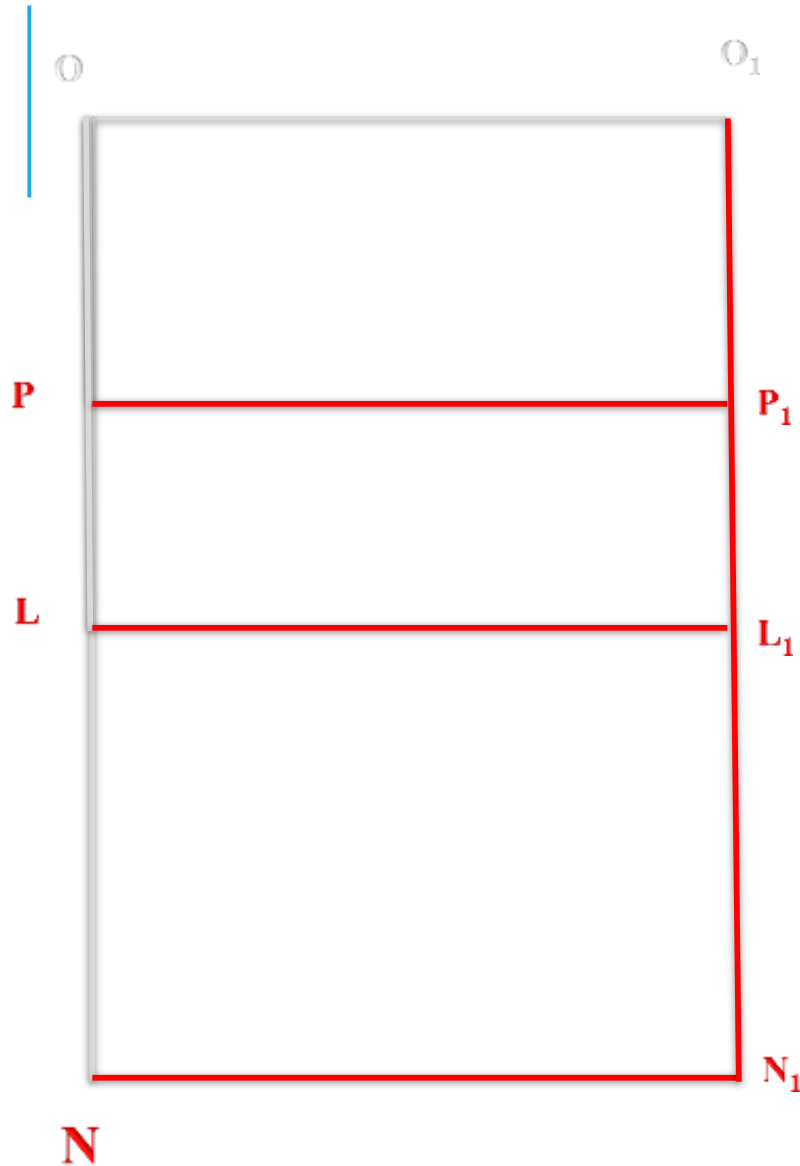


3. Yeng boshining balandligi: $OP=OK_4$
(ort bo'lak chizmasidagi yeng o'mizining
vertikal diametri) – 2,5

5. Tirsak sathi:

$$OL = ON:2+5 = 50,8:2+2 = 27,4 \text{ sm}$$

Bir chokli yeng asosi chizmasinihg to'r qismini chizish

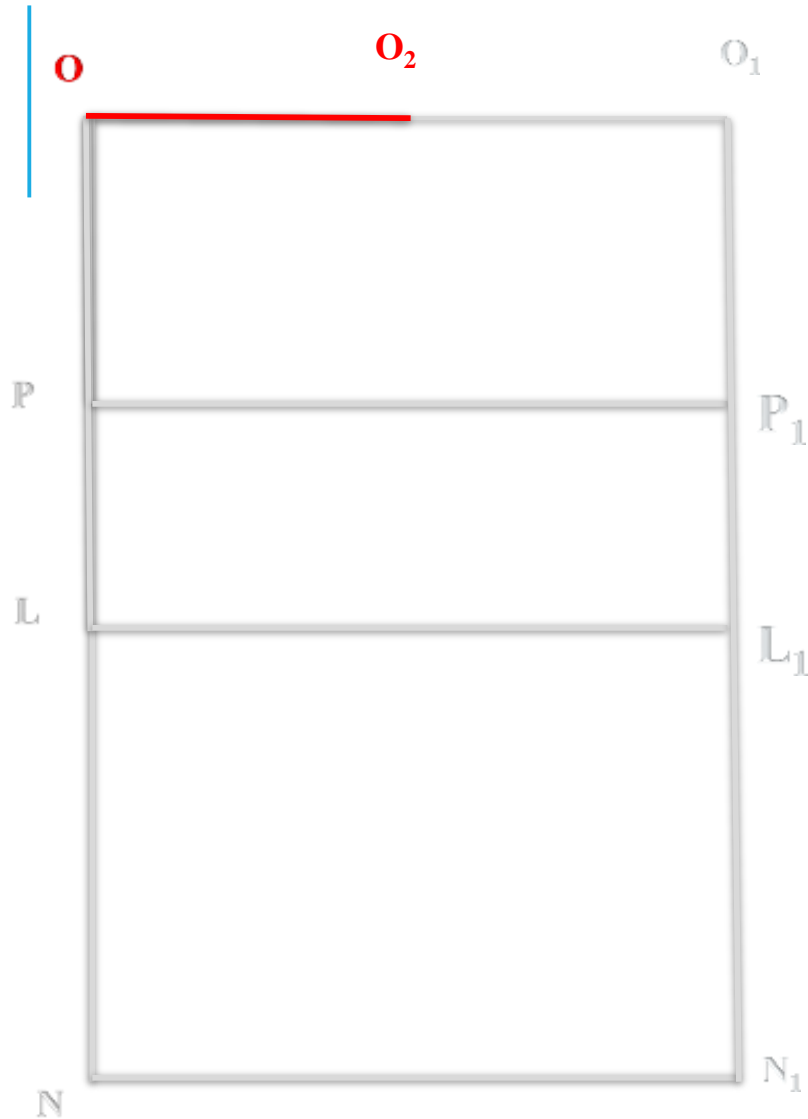


5. Tirsak sathi:

$$OL = ON:2+5 = 50,8:2+2 = 27,4 \text{ sm}$$

6. P, L va N nuqtalardan gorizonta
chiziqlar o'tkaziladi va P₁, L₁, N₁
nuqtalar bilan belgilanadi.

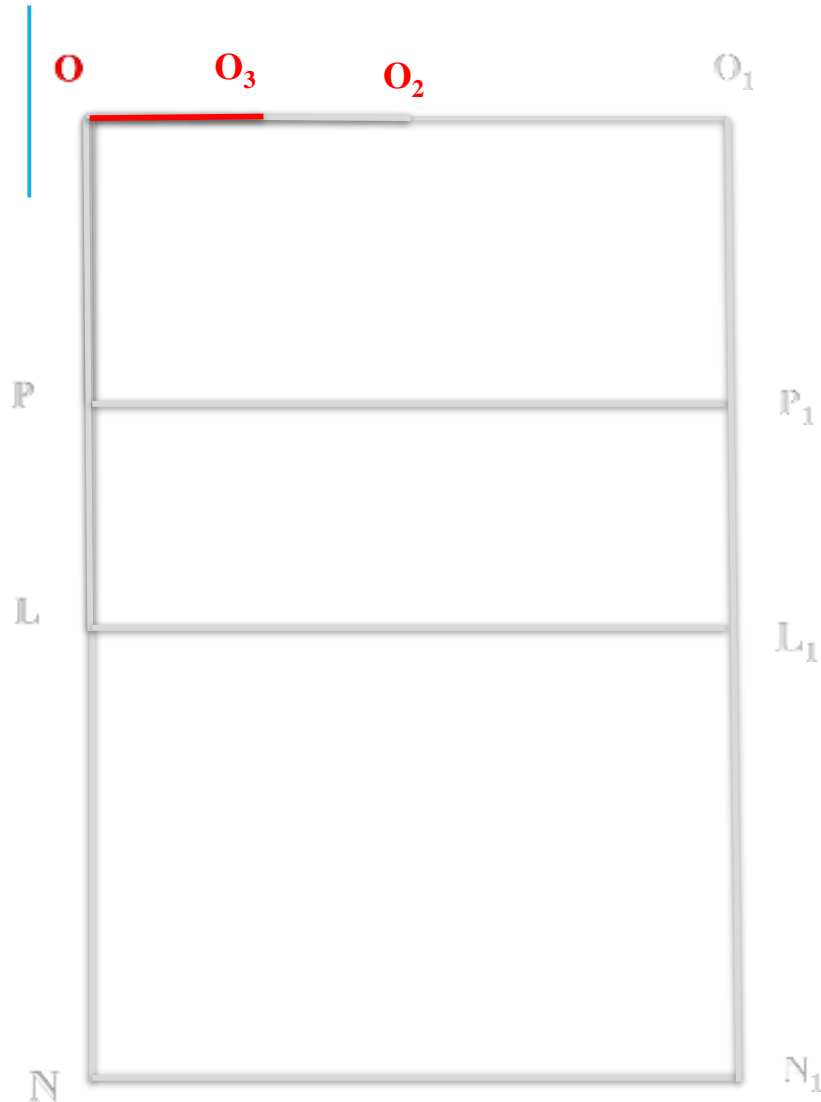
Bir chokli yeng asosi chizmasinihg to'r qismini chizish



6. P, L va M nuqtalardan gorizonta
chiziqlar o'tkaziladi va P₁, L₁, M₁
nuqtalar bilan belgilanadi.

7. Yeng qiyamasining eng yuqori nuqtasi:
 $OO_2 = OO_1:2+0,5 = 29,1:2+0,5 = 15 \text{ sm}$

Bir chokli yeng asosi chizmasinih to'r qismini chizish

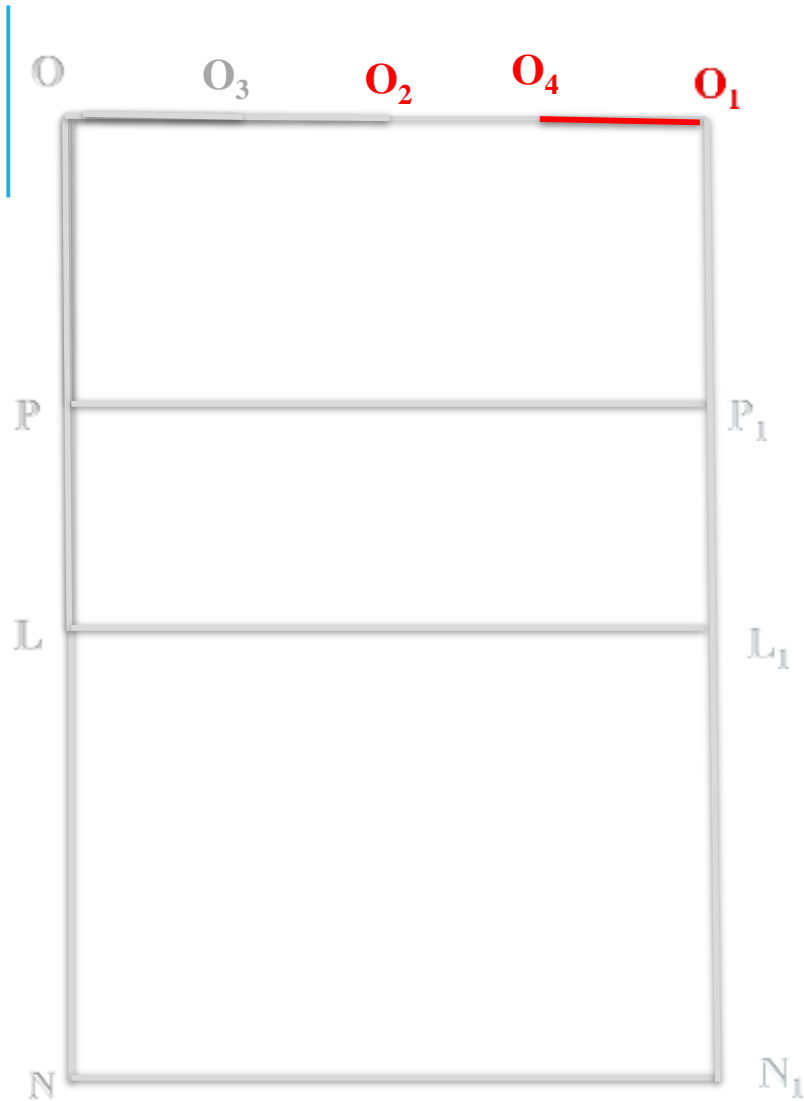


7. Yeng qiyamasining eng yuqori nuqtasi: $OO_2 = OO_1:2+0,5 = 29,1:2+0,5 = 15 \text{ sm}$

8. Tirsakning o'tish qismi:

$$OO_3 = OO_2:2$$

Bir chokli yeng asosi chizmasinihg to'r qismini chizish



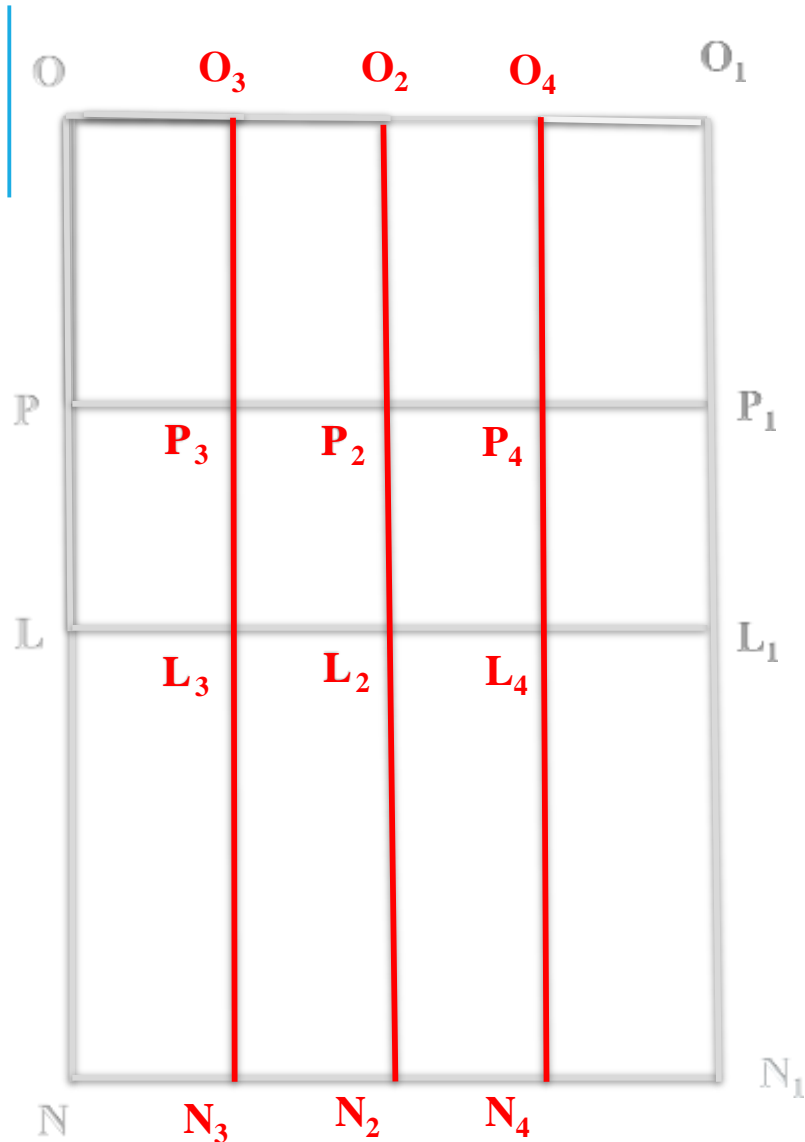
8. Tirsakning o'tish qismi:

$$OO_3 = OO_2:2$$

9. Old tomonning o'tish qismi:

$$O_1O_4 = O_1O_2:2$$

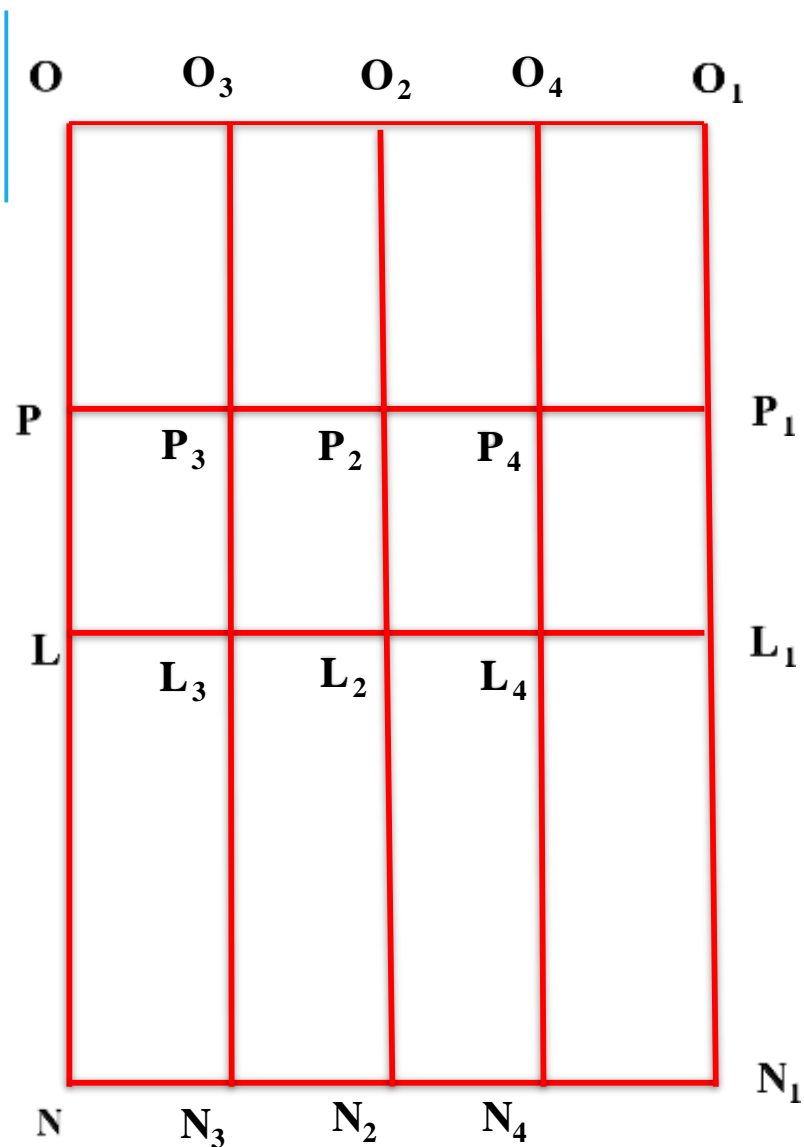
Bir chokli yeng asosi chizmasinihg to'r qismini chizish



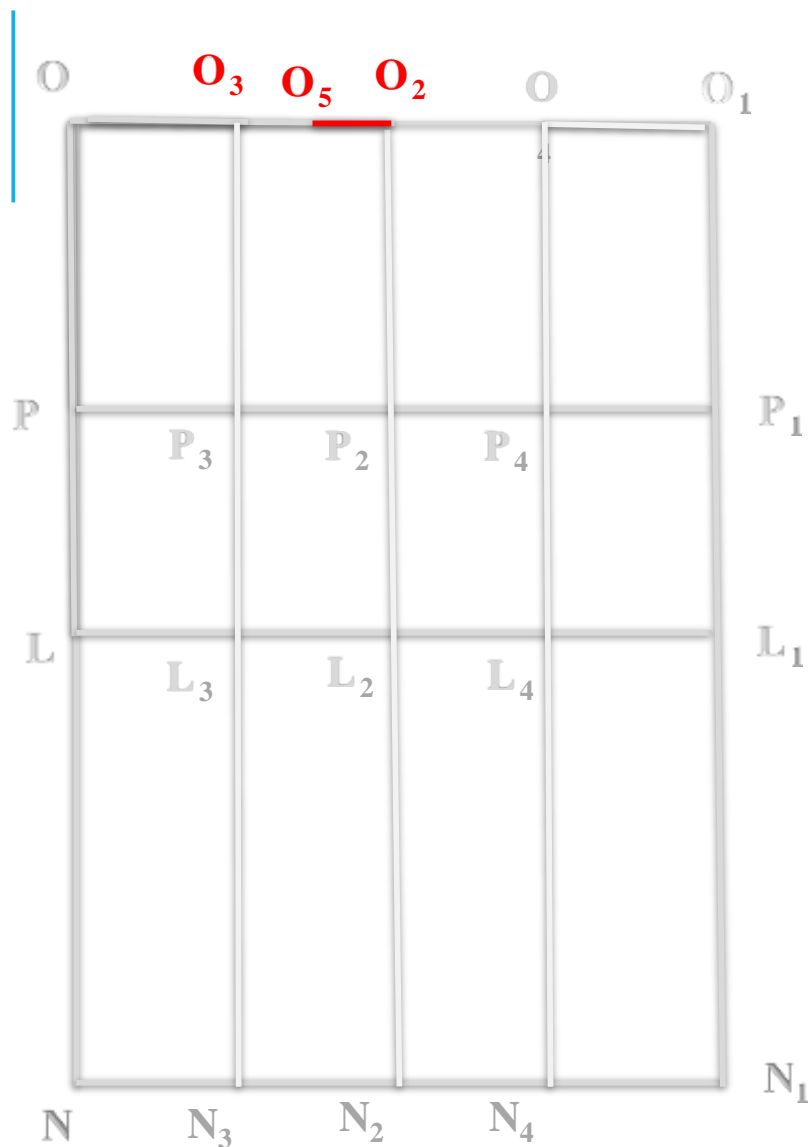
9. Old tomonning o'tish qismi:
 $O_1O_4=O_1O_2:2$

10. O₂, O₃, O₄ nuqtalardan vertikal o'tkazib kesishgan joylarga P₂, L₂, N₂, P₃, L₃, N₃, P₄, L₄, N₄ nuqtalar qo'yib belgilanadi.

Bir chokli yeng asosi chizmasinihg to'r qismi



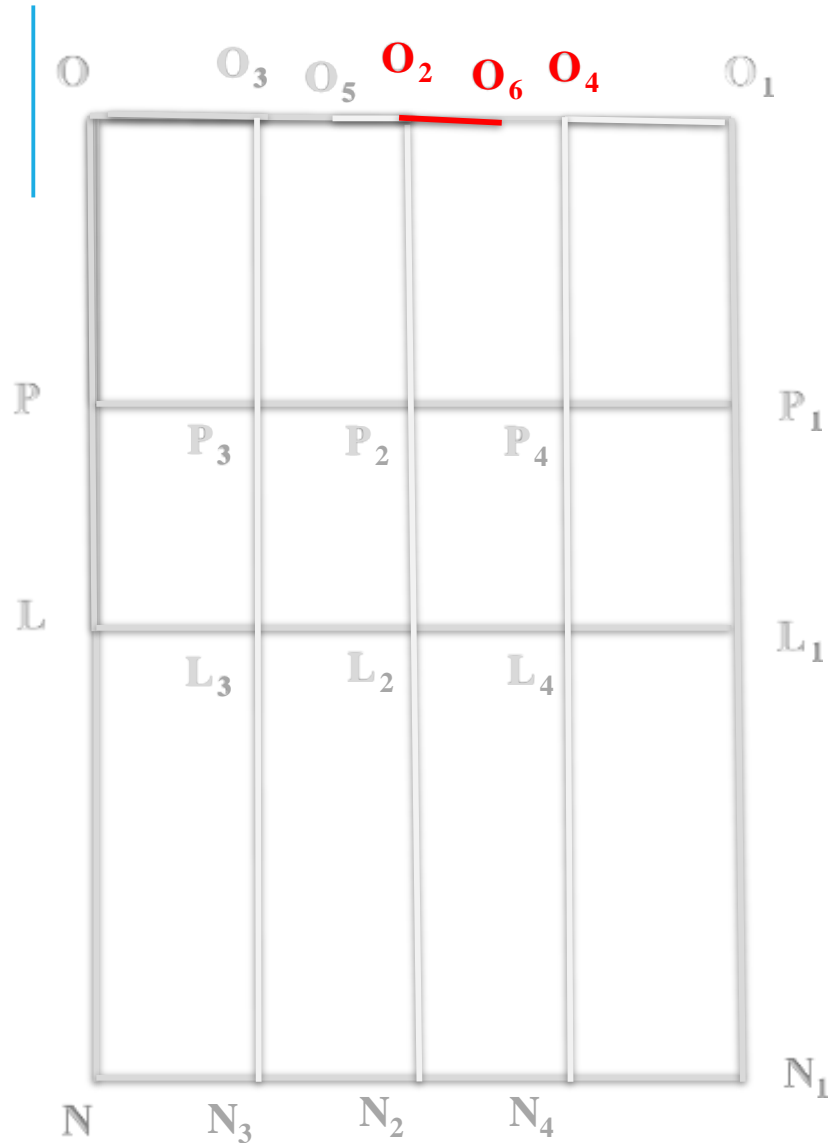
Yeng boshini chizish



10. O_2 , O_3 , O_4 nuqtalardan vertikal o'tkazib kesishgan joylarga P_2 , L_2 , M_2 , P_3 , L_3 , M_3 , P_4 , L_4 , M_4 nuqtalar qo'yib belgilanadi.

11. $O_2O_5 = O_2O_3:2$;

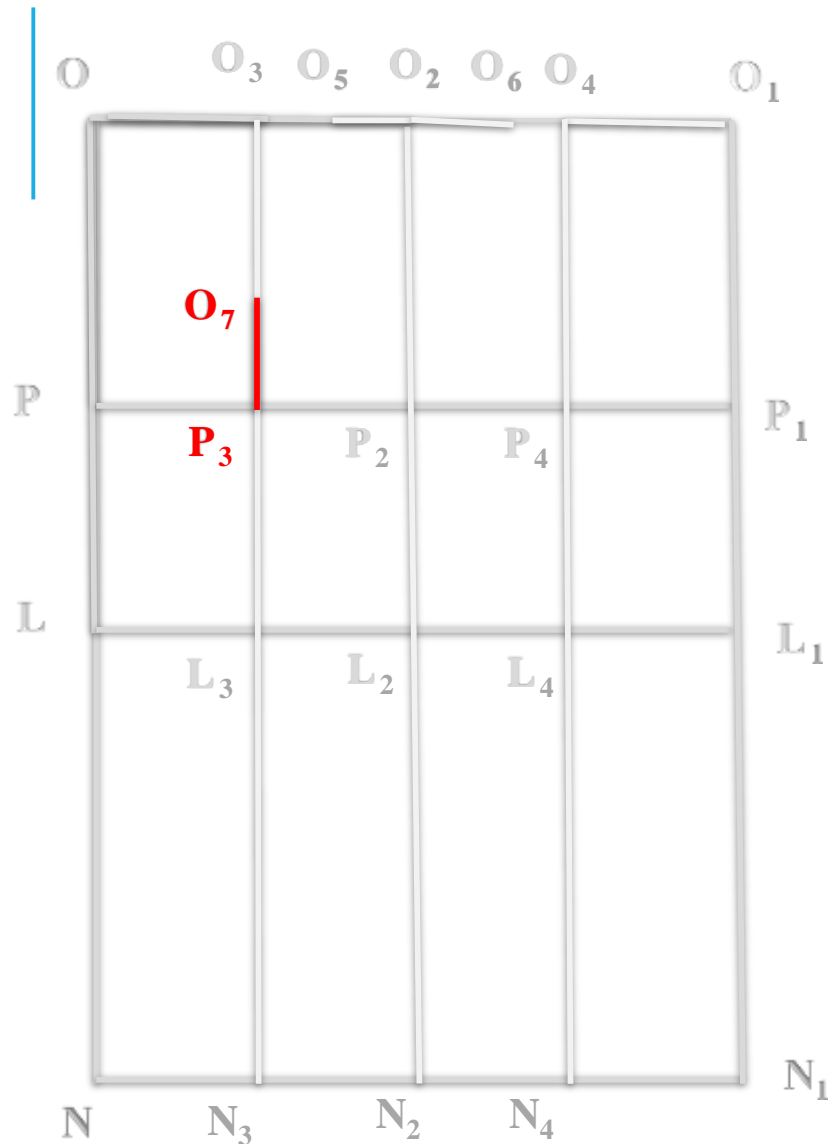
Yeng boshini chizish



11. $O_2O_5 = O_2O_3:2;$

12. $O_2O_6 = O_2O_4:2+1,5.$

Yeng boshini chizish

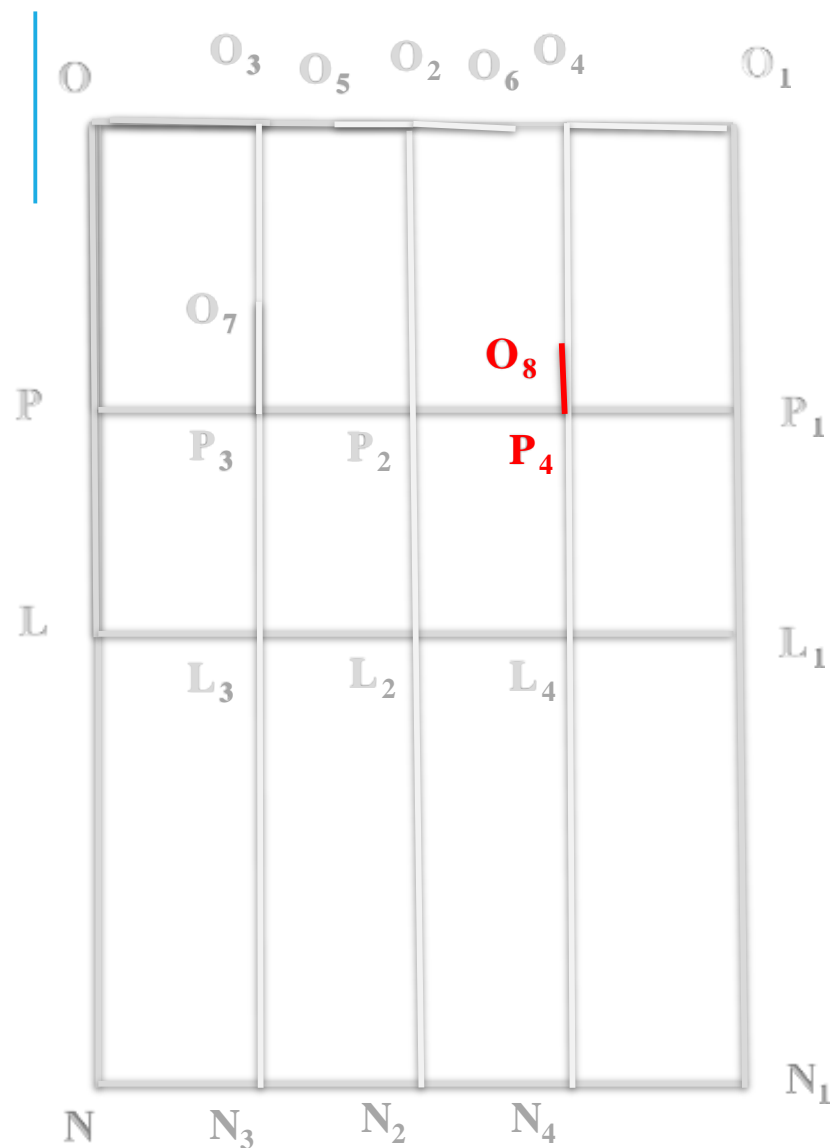


$$12. O_2O_6 = O_2O_4:2+1,5.$$

$$13. P_3O_7 = K_2P_2$$

(chizmadan olinadi)

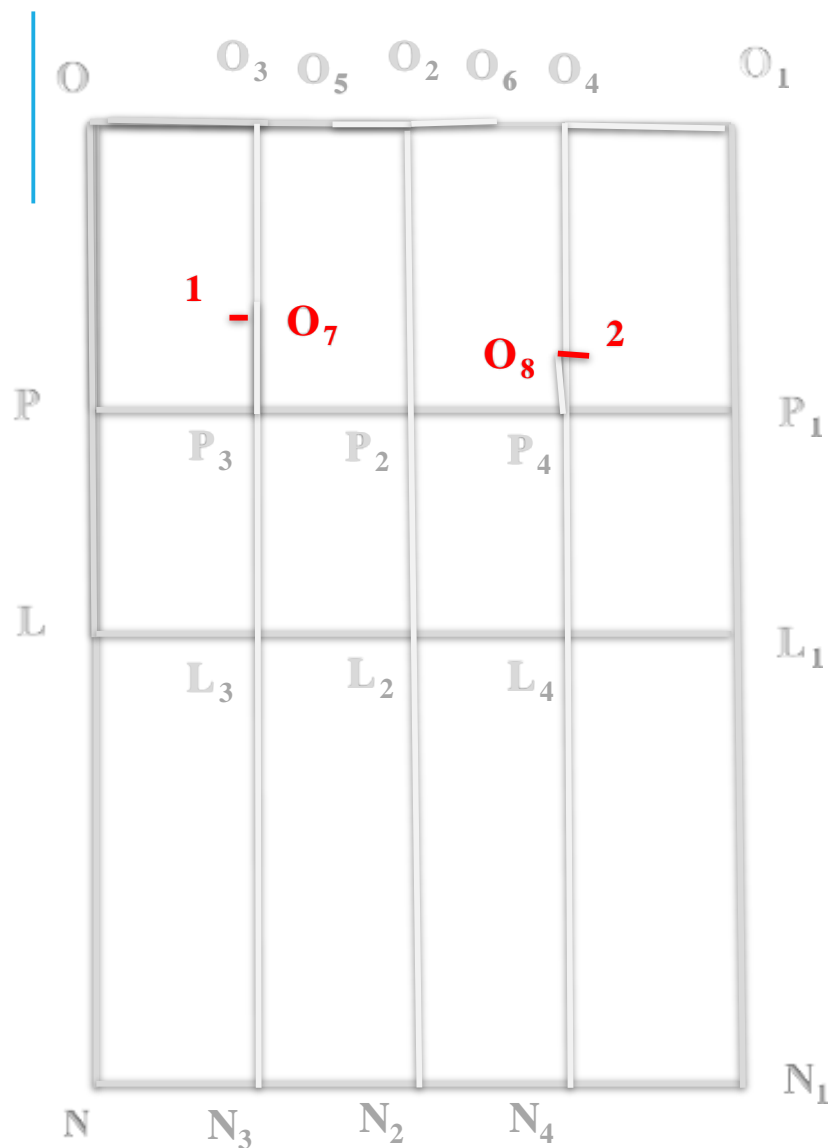
Yeng boshini chizish



13. $P_3O_7 = K_2P_2$
(chizmadan olinadi)

14. $P_4O_8 = K_3P_4$
(chizmadan olinadi).

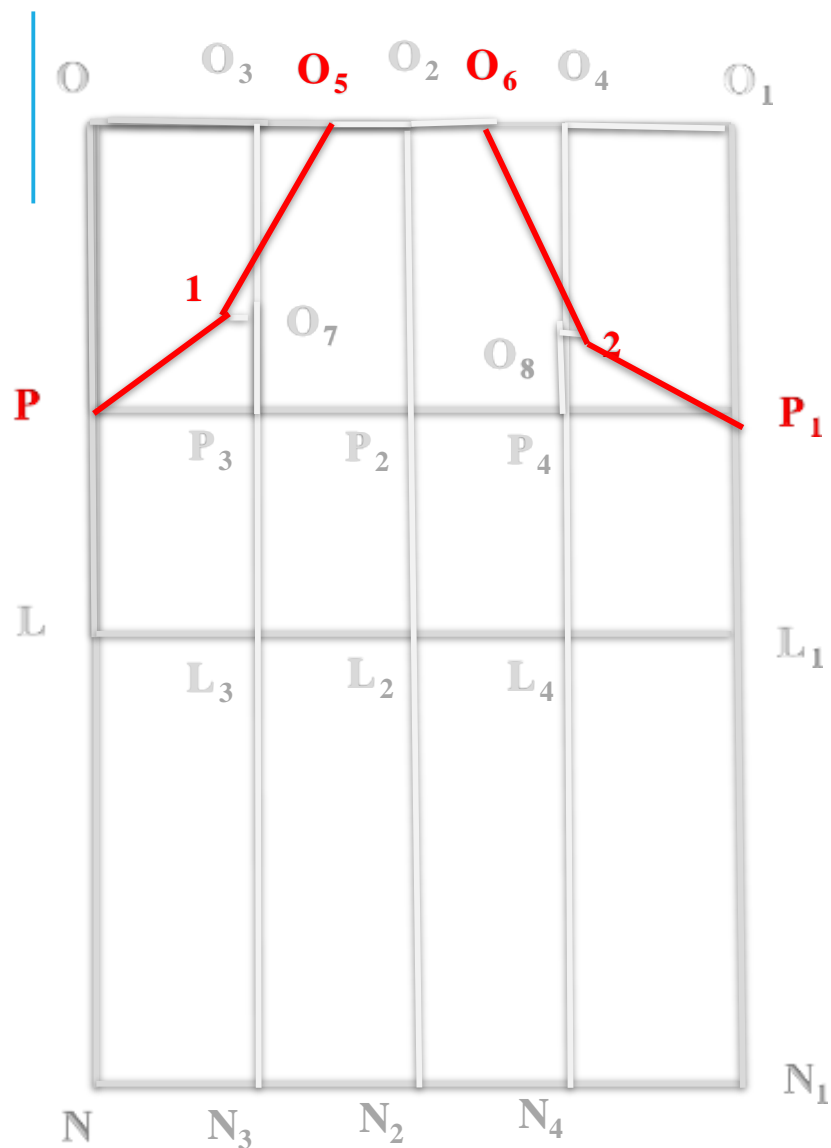
Yeng boshini chizish



14. $P_4O_8 = K_3P_4$
(chizmadan olinadi).

15. O₇ nuqtadan chapga, O₈ nuqtadan o'ngga 0,5 sm dan o'lchab qo'yiladi va 1, 2 nuqtalar belgilanadi.

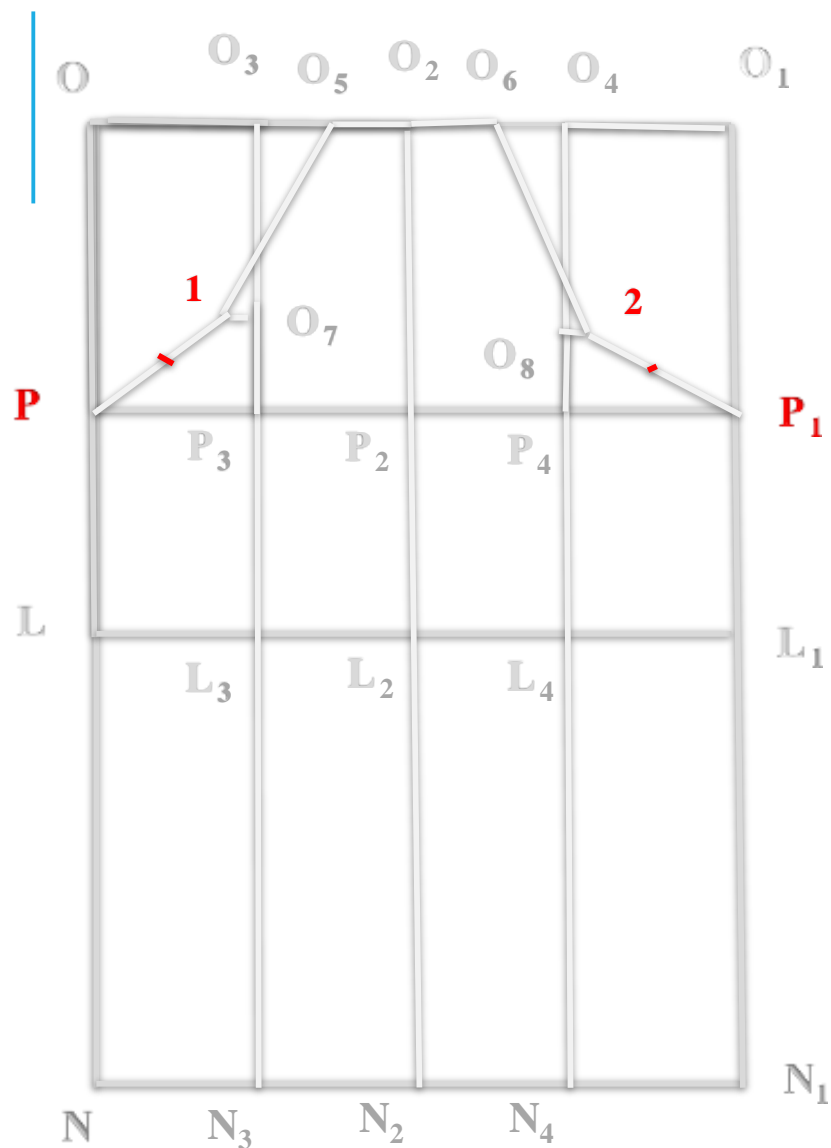
Yeng boshini chizish



15. O₇ nuqtadan chapga, O₈ nuqtadan o'ngga 0,5 sm dan o'lchab qo'yiladi va 1, 2 nuqtalar belgilanadi.

16. O₅, 1, P; O₆, 2, P₁ nuqtalarni yordamchi to'g'ri chiziqliq bilan birlashtiriladi.

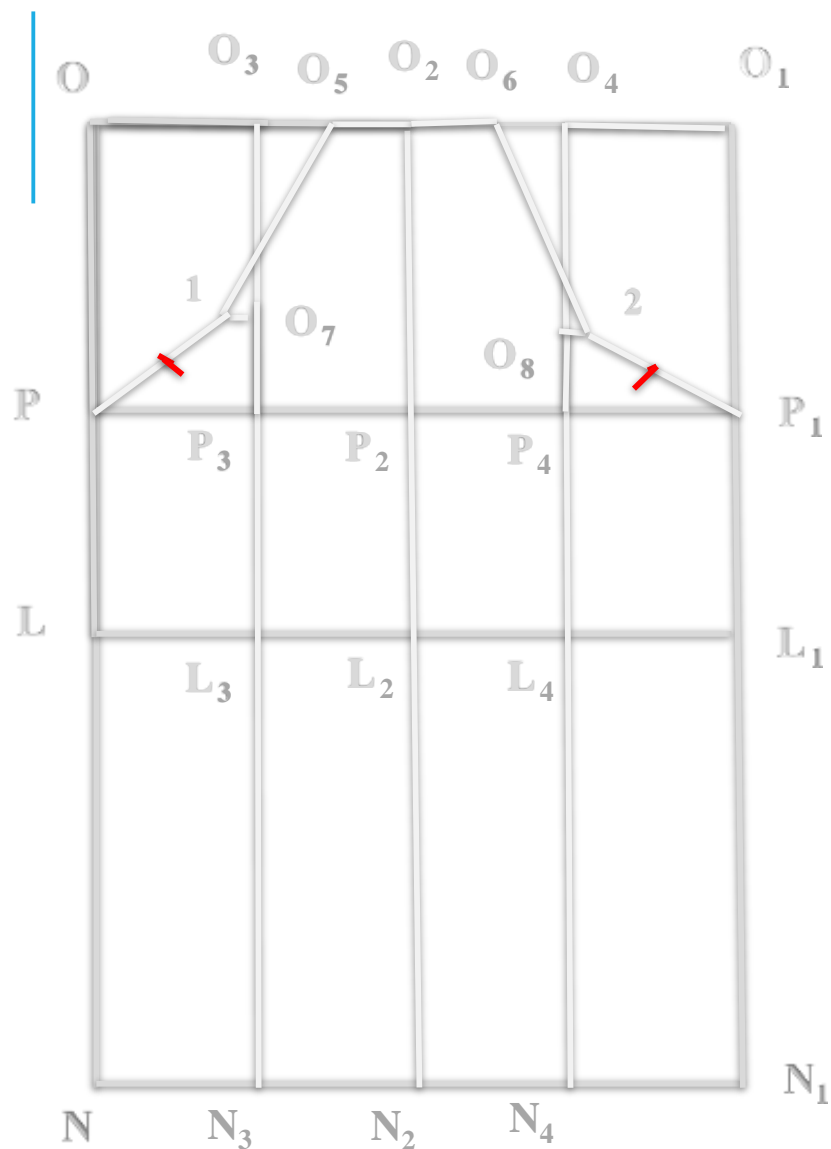
Yeng boshini chizish



16. O_5 , 1, P ; O_6 , 2, P_1 nuqtalarni yordamchi to'g'ri chiziq bilan birlashtiriladi.

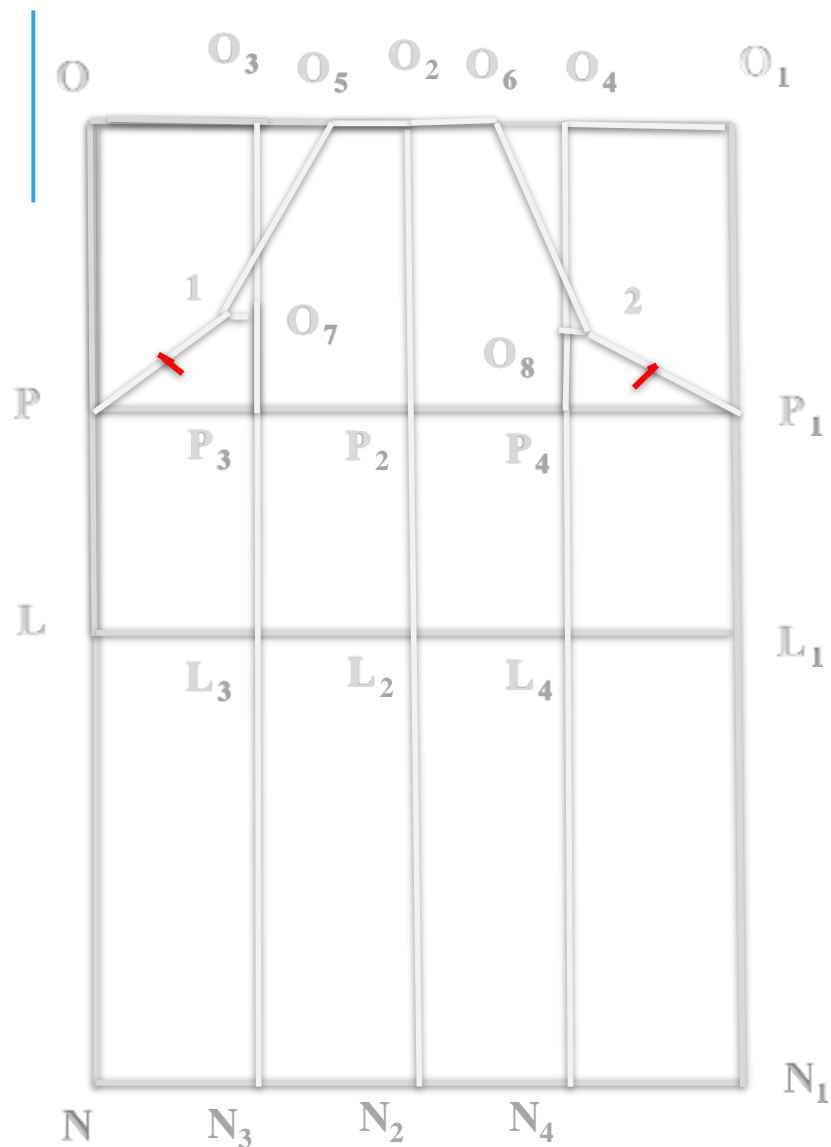
17. P – 1 va P_1 – 2 qism ikkiga bo'linadi;

Yeng boshini chizish



17. P – 1 va P₁ – 2 qism
ikkiga bo'linadi.

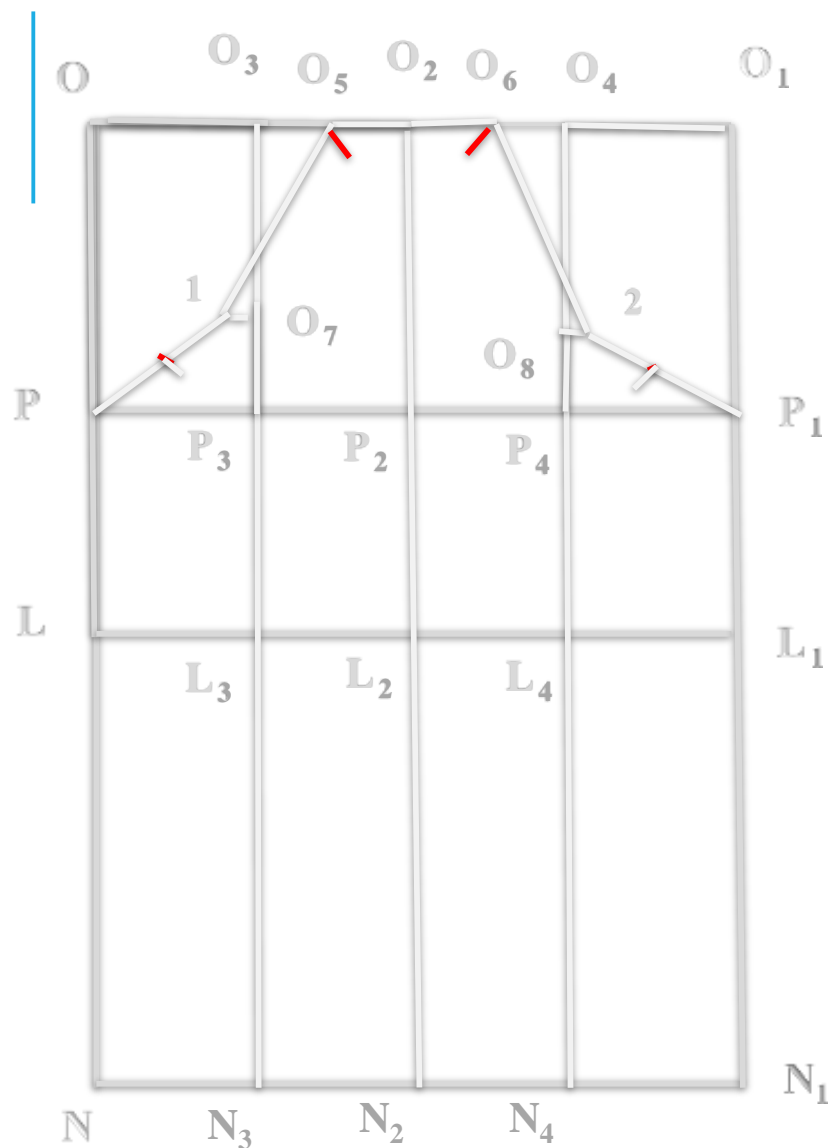
18. 1 sm va 2-2,5 sm ga teng
bo'lgan perpendikulyar
o'tkaziladi;



17. $P - 1$ va $P_1 - 2$ qism
ikkiga bo'linadi.

18. 1 sm va 2-2,5 sm ga teng bo'lgan perpendikulyar o'tkaziladi;

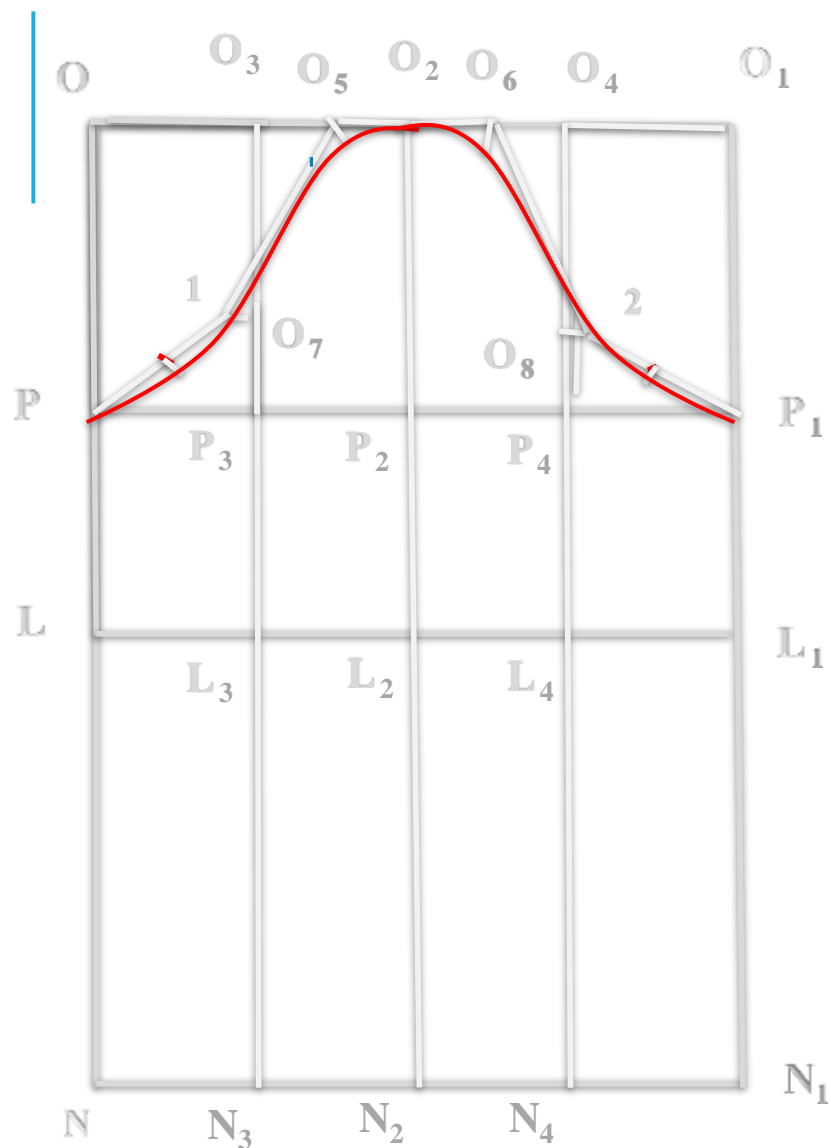
Yeng boshini chizish



18. 1 sm va 2-2,5 sm ga teng bo'lgan perpendikulyar o'tkaziladi.

19. O₅ va O₆ burchaklar bissektrisasi bo'ylab 1-1,2 sm 1,5-2 sm ga teng kesma o'lchab qo'yiladi.

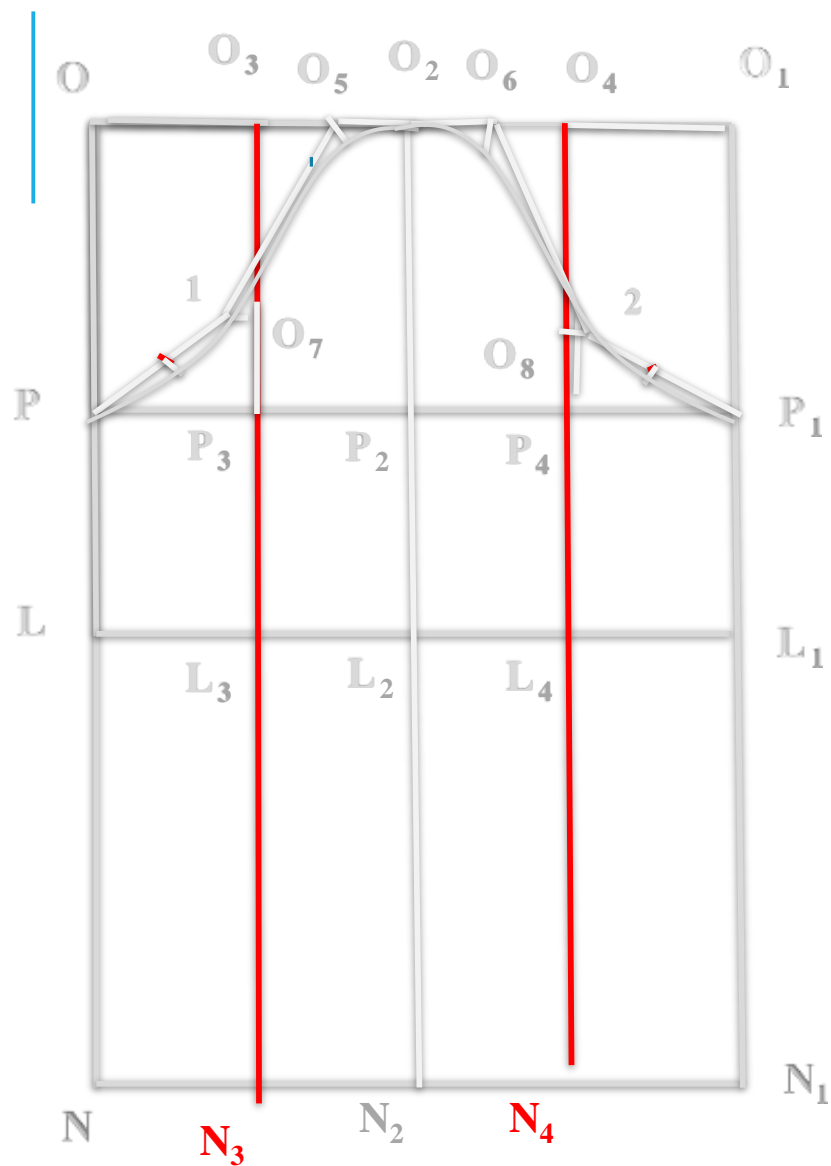
Yeng boshini chizish



19. O_5 va O_6 burchaklar bissektorisasi bo'ylab 1-1,2 sm 1,5-2 sm ga teng kesma o'lchab qo'yiladi.

20. Yordamchi va asosiy nuqtalar orqali yeng boshi ravon chiziqlar bilan shakli keltirib chiziladi.

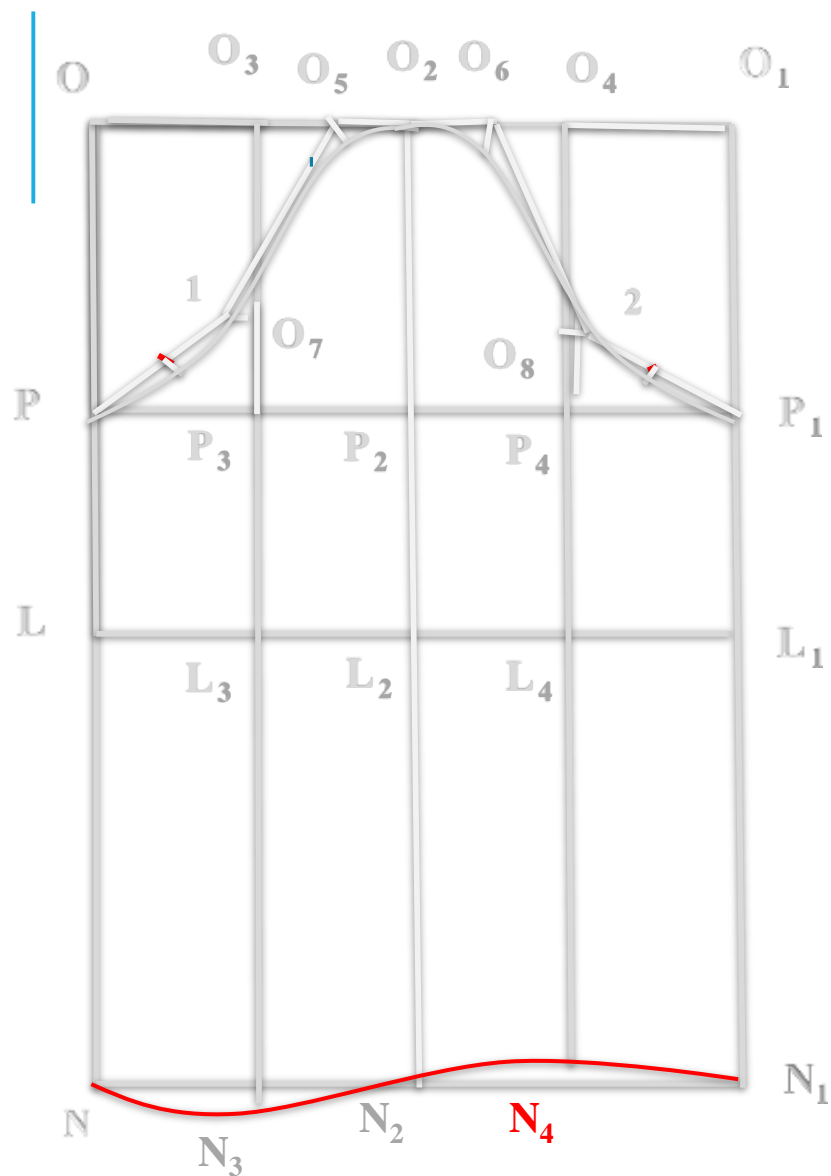
Yeng boshini chizish



20. Yordamchi va asosiy nuqtalar orqali yeng boshi ravon chiziqlar bilan shakli keltirib chiziladi.

21. Yeng tirsakning o'tish qismi bo'ylab N₃ nuqtadan 1 sm uzaytiriladi. Yeng uchi old tomon o'tish qismi bo'ylab N₄ nuqtadan yuqoriga 1 sm qisqartiriladi.

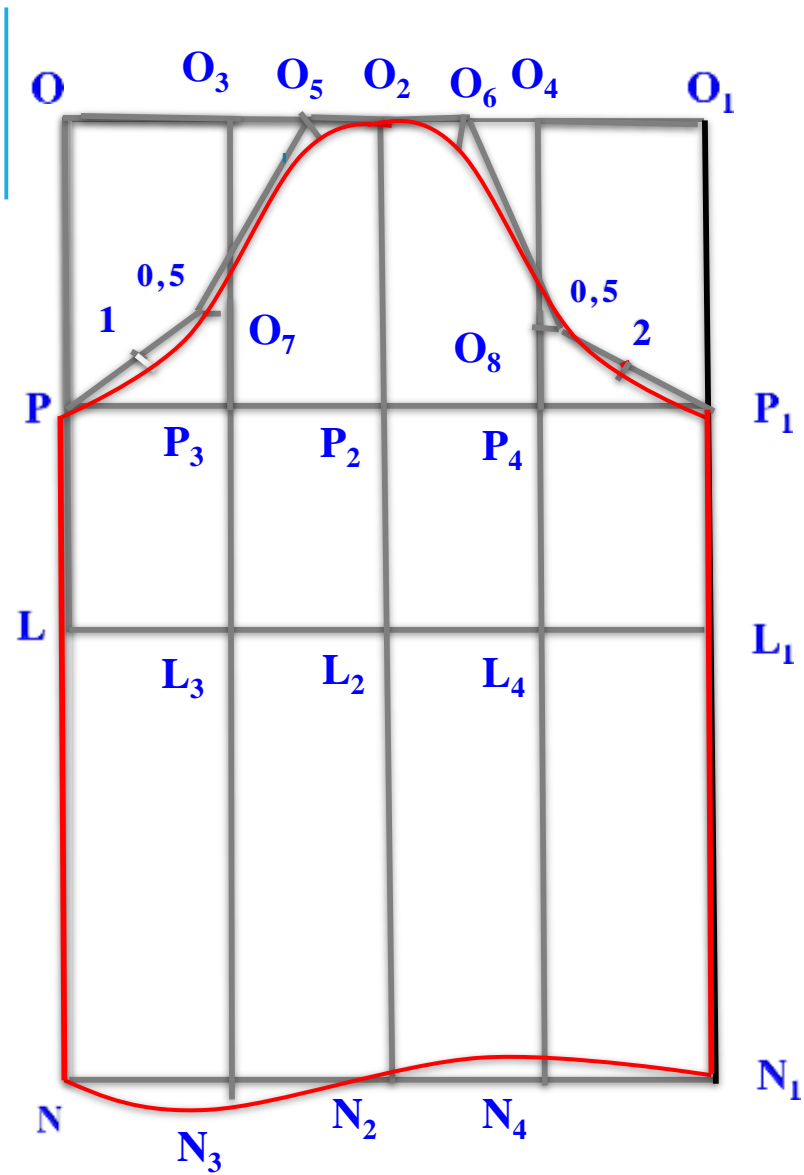
Yeng boshini chizish



21. Yeng tirsakning o'tish qismi bo'ylab N_3 nuqtadan 1 sm uzaytiriladi. Yeng uchi old tomon o'tish qismi bo'ylab N_4 nuqtadan yuqoriga 1 sm qisqartiriladi.

22. Yeng uchi ravon chiziq bilan chizib olinadi.

Bir chokli yeng asosi chizmasi



NAZORAT UCHUN SAVOLLAR:

1. Maktab yoshidagi qiz bolalar kiyimlari uchun qanday talablar qo'yiladi?
2. Maktab yoshidagi qiz bolalar ko'ylagi asos chizmasi uchun qanday asosiy o'lchovlar olinadi?
3. Maktab yoshidagi qiz bolalar ko'ylagi asos chizmasi uchun qanday qo'shimchalar olinadi?
4. Ko'ylak kengligi qaysi formula orqali topiladi?
5. Orqa kenglikni hisoblash formulasini ko'rsating?
6. Old kenglikni hisoblash formulasini ko'rsating?
7. Vitachkalar yig'indisi qaysi formula orqali topiladi?
8. Yeng asosi chizmasini chizish uchun qanday asosiy o'lchovlar va qo'shimchalar kerak bo'ladi?
9. Yeng kengligi qanday topiladi?
10. Yeng boshi balandligi qanday topiladi?

E'tiboringiz uchun raxmat!

