

# Deoba nepravilne parcele

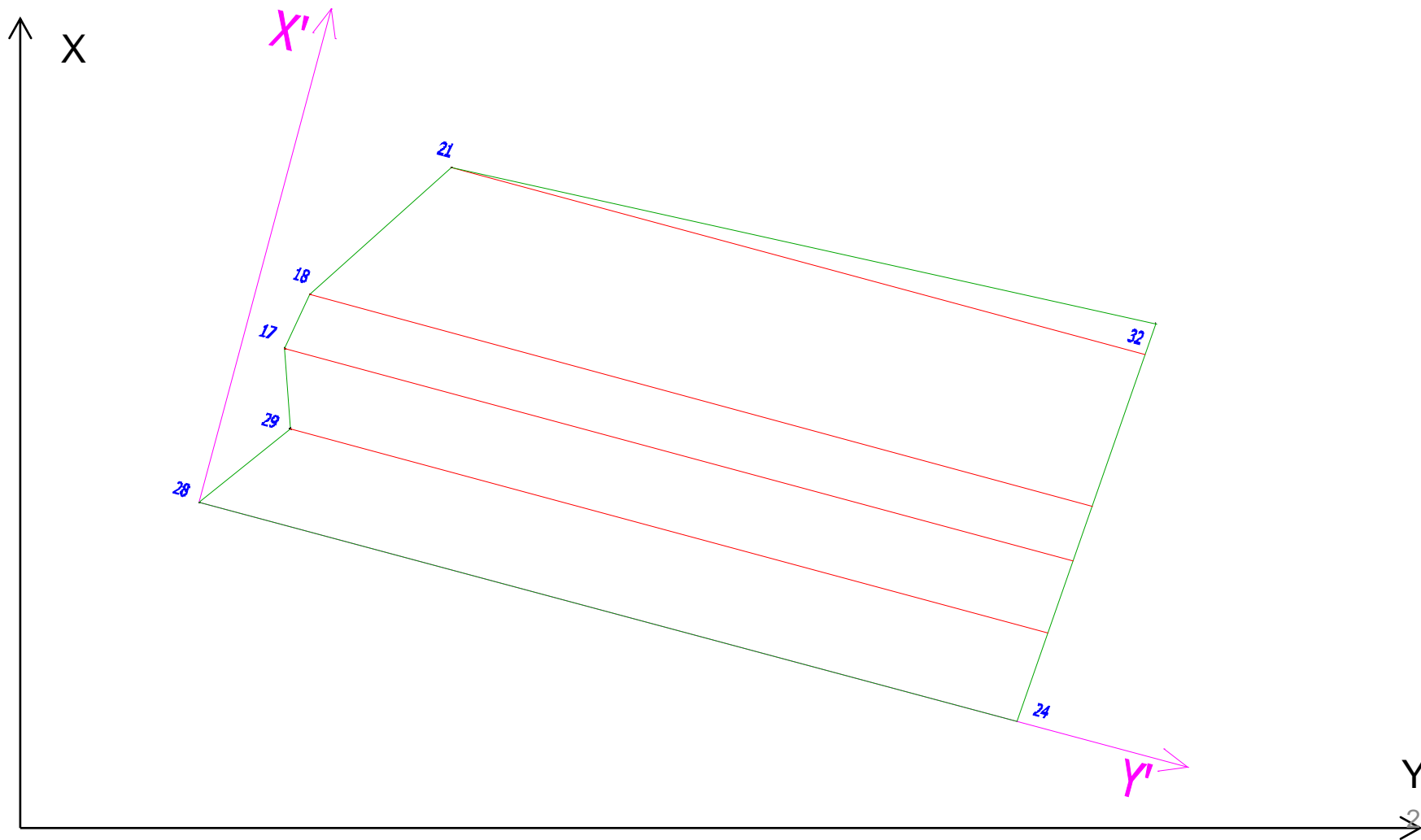
Uslovi:

- Zadate su površine novih parcela
- Parcele treba da budu pogodnog oblika za poljoprivrednu proizvodnju (pravougaonik, trapez)

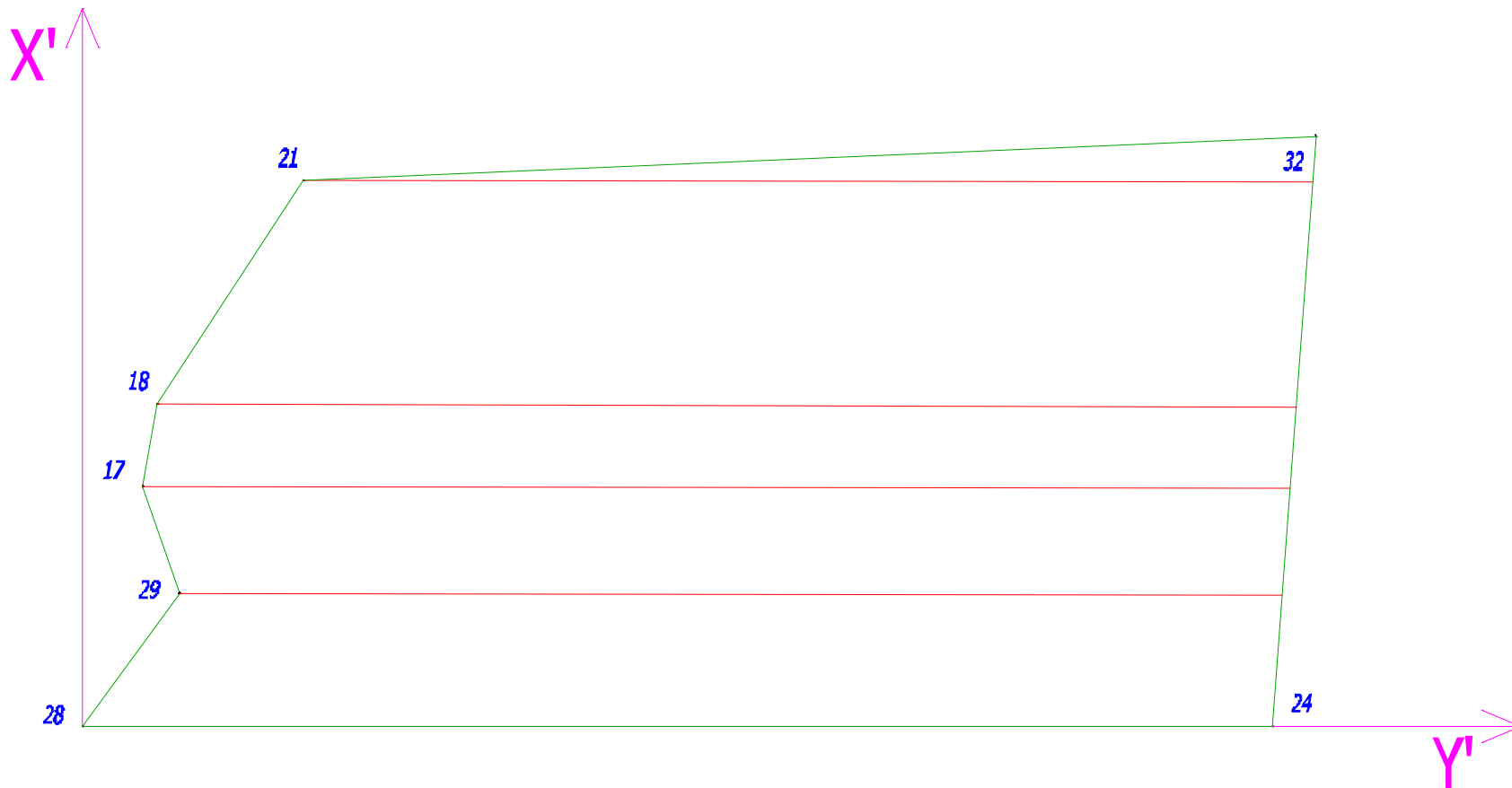
Izvrši se snimanje parcele na kojoj se želi izvršiti deoba i sračunaju se koordinate međnih tačaka

Radi lakše deobe parcele, formira se lokalni koordinatni sistem tako da jedna osa tog sistema bude paralelna sa budućim smerom obrade novih parcela.

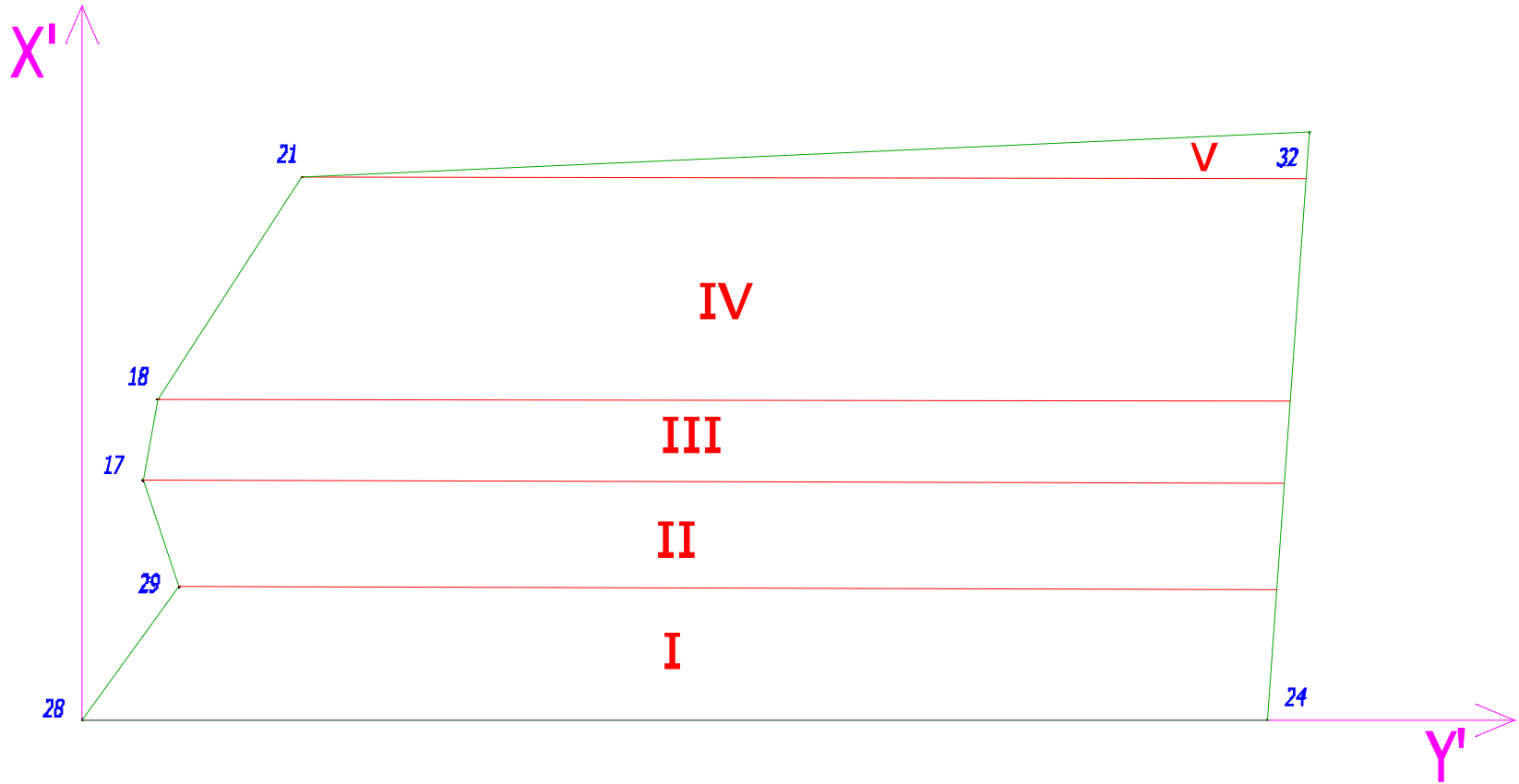
Izvrši se transformacija koordinata međnih tačaka u lokalni koordinatni sistem



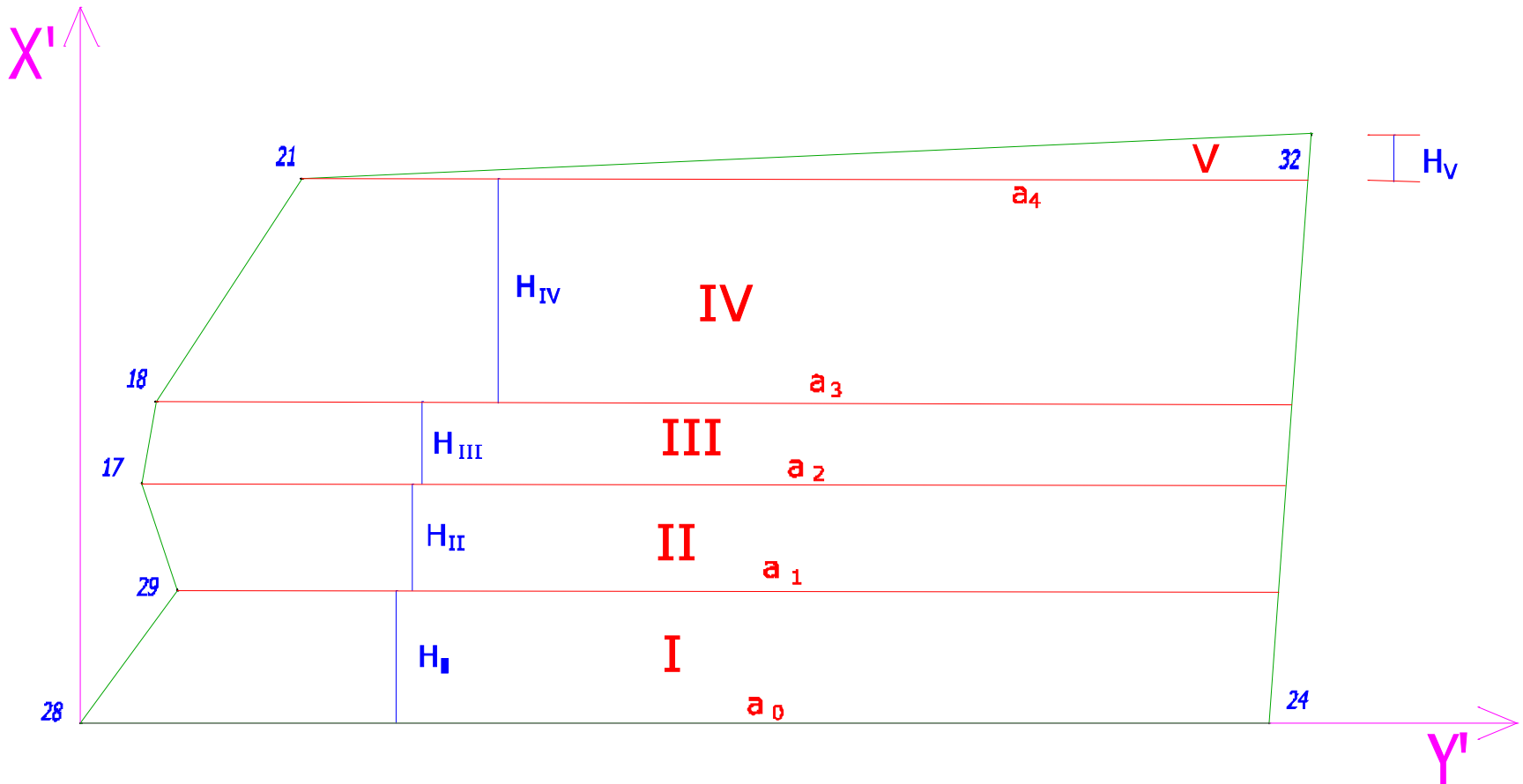
Lamelacija table: deoba nepravilne table na pravilne delove – trapeze. Paralelno sa osom koja definiše smer obrade novih parcela iz svake prelomne tačke međne linije povlači se linija.



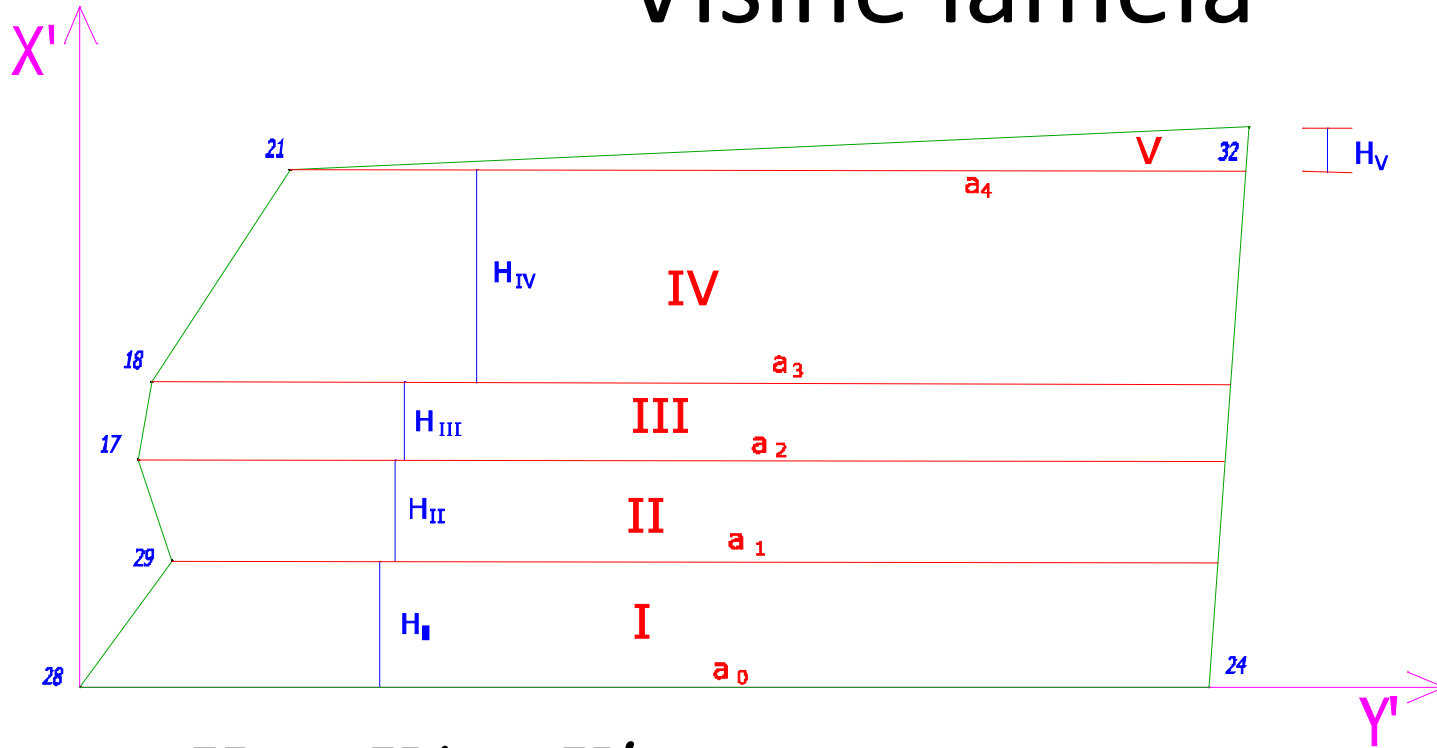
# Lamelacija table



# Elementi lamela



# Visine lamela



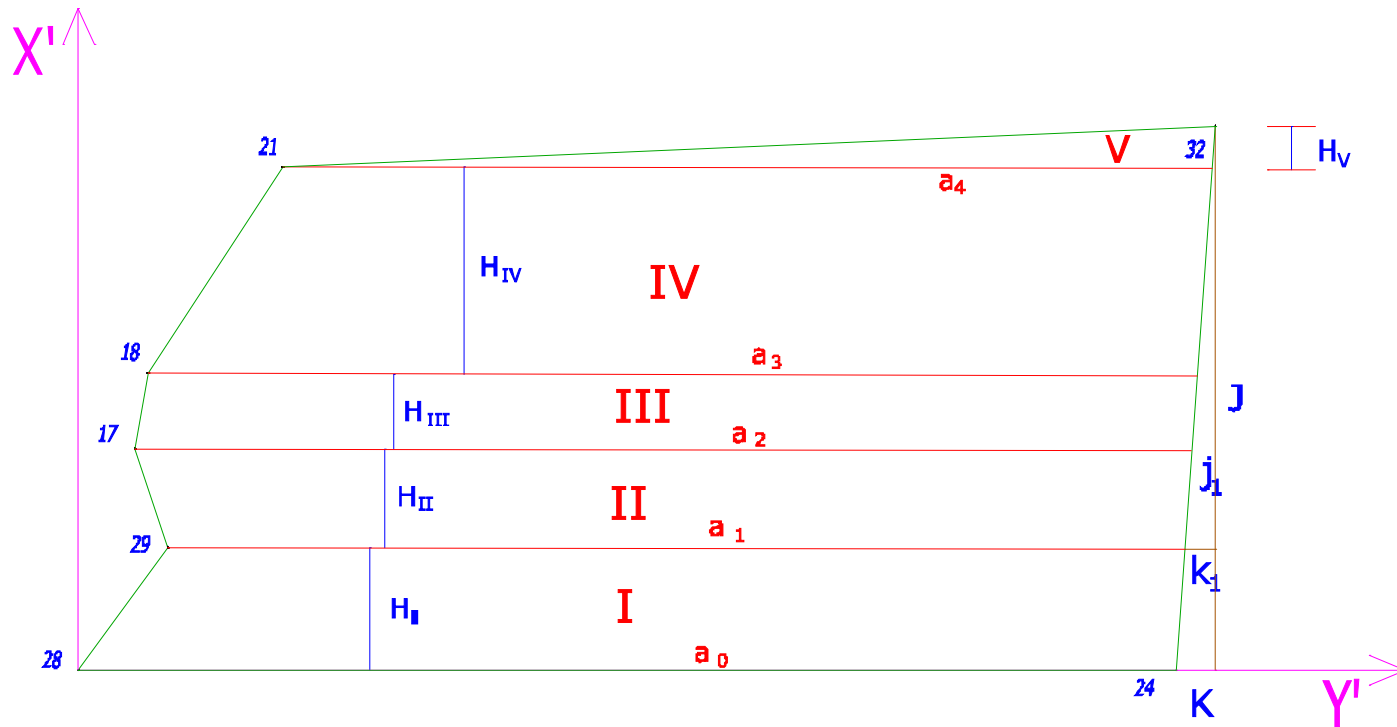
$$H_I = X'_{29} - X'_{28}$$

$$H_{II} = X'_{17} - X'_{29}$$

.....

$$H_V = \dots$$

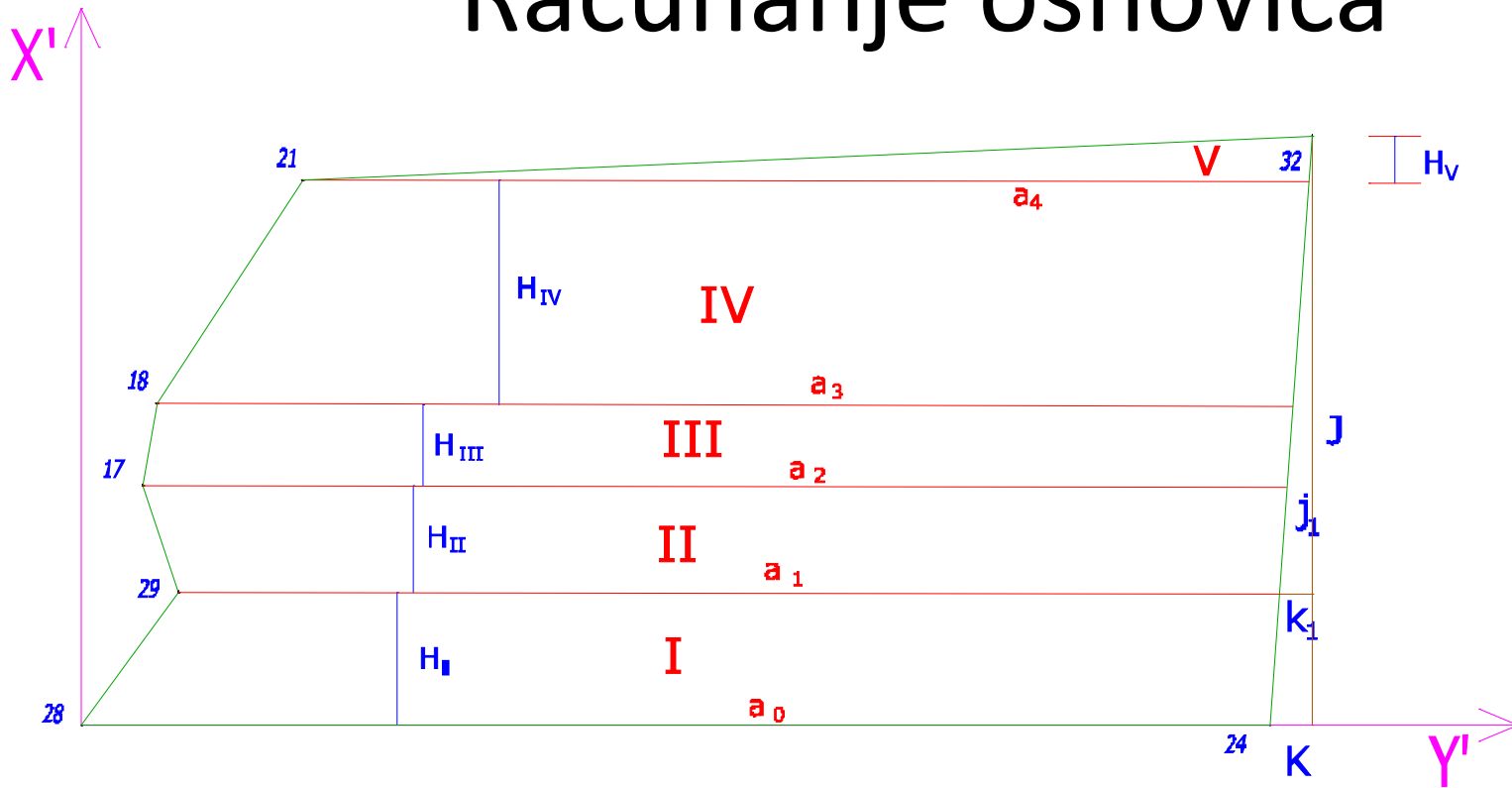
# Računanje osnovica



$$a_0 = Y'_{24} - Y'_{28}$$

$$a_1 + k_1 = Y'_{32} - Y'_{29}$$

# Računanje osnovica



$$J = X'_{32} - X'_{28}$$

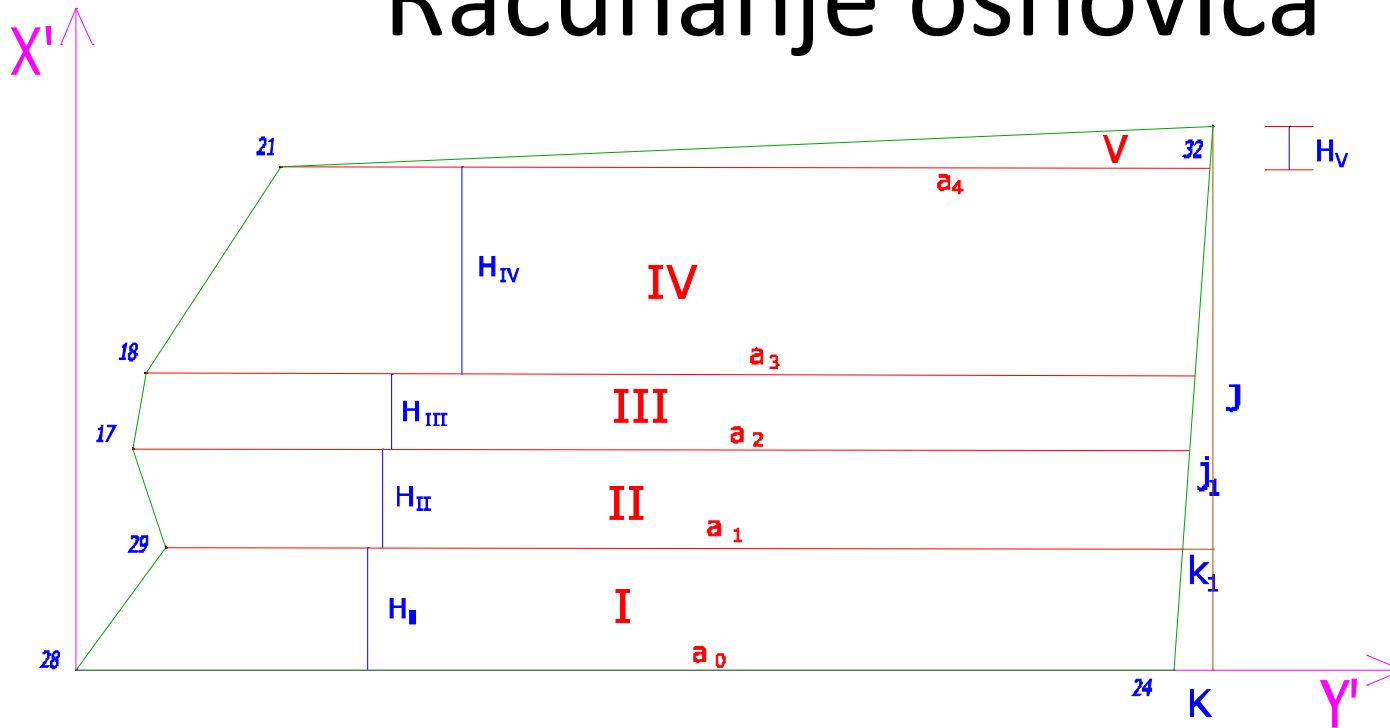
$$j_1 = X'_{32} - X'_{29}$$

$$K = Y'_{32} - Y'_{24}$$

$$\frac{j_1}{k_1} = \frac{J}{K} \Rightarrow k_1 = \frac{K}{J} \cdot j_1$$



# Računanje osnovica



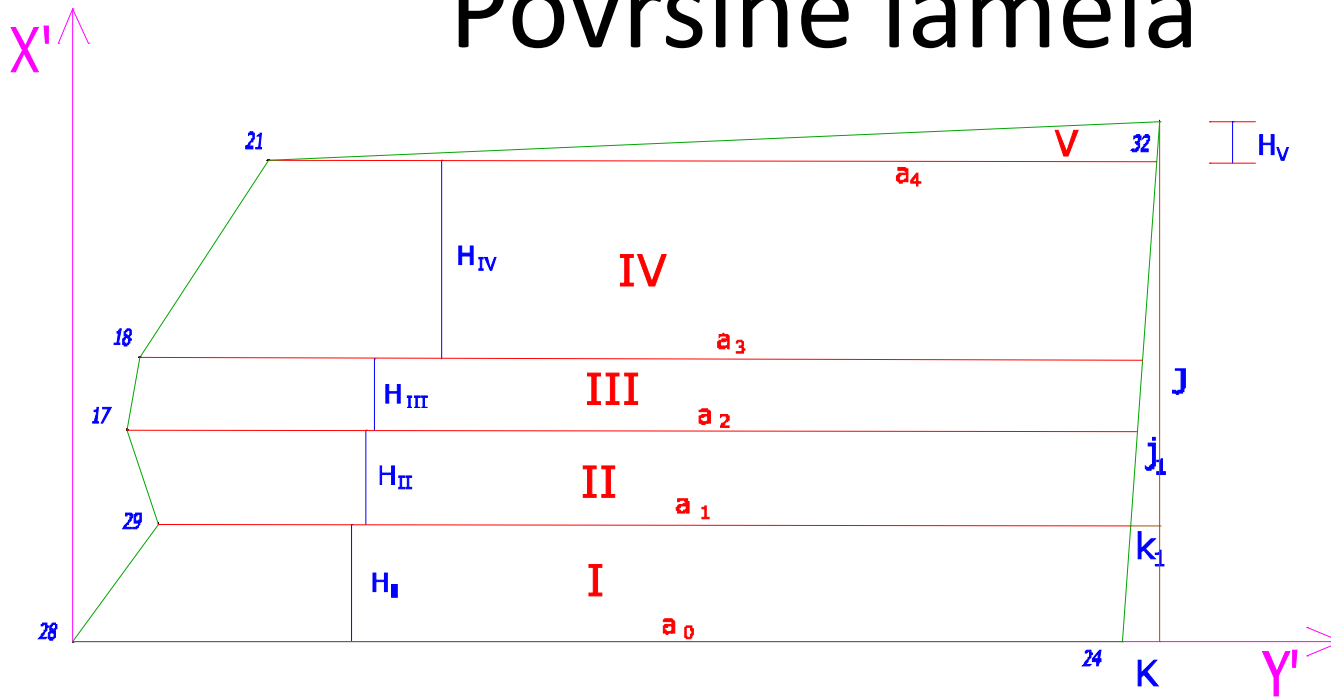
$$a_0 = Y'_{24} - Y'_{28}$$

$$a_1 = Y'_{32} - Y'_{29} - k_1$$

$$a_2 = \dots$$

....

# Površine lamela



$$P_I = \frac{a_0 + a_1}{2} \cdot H_I$$

$$P_{II} = \dots$$

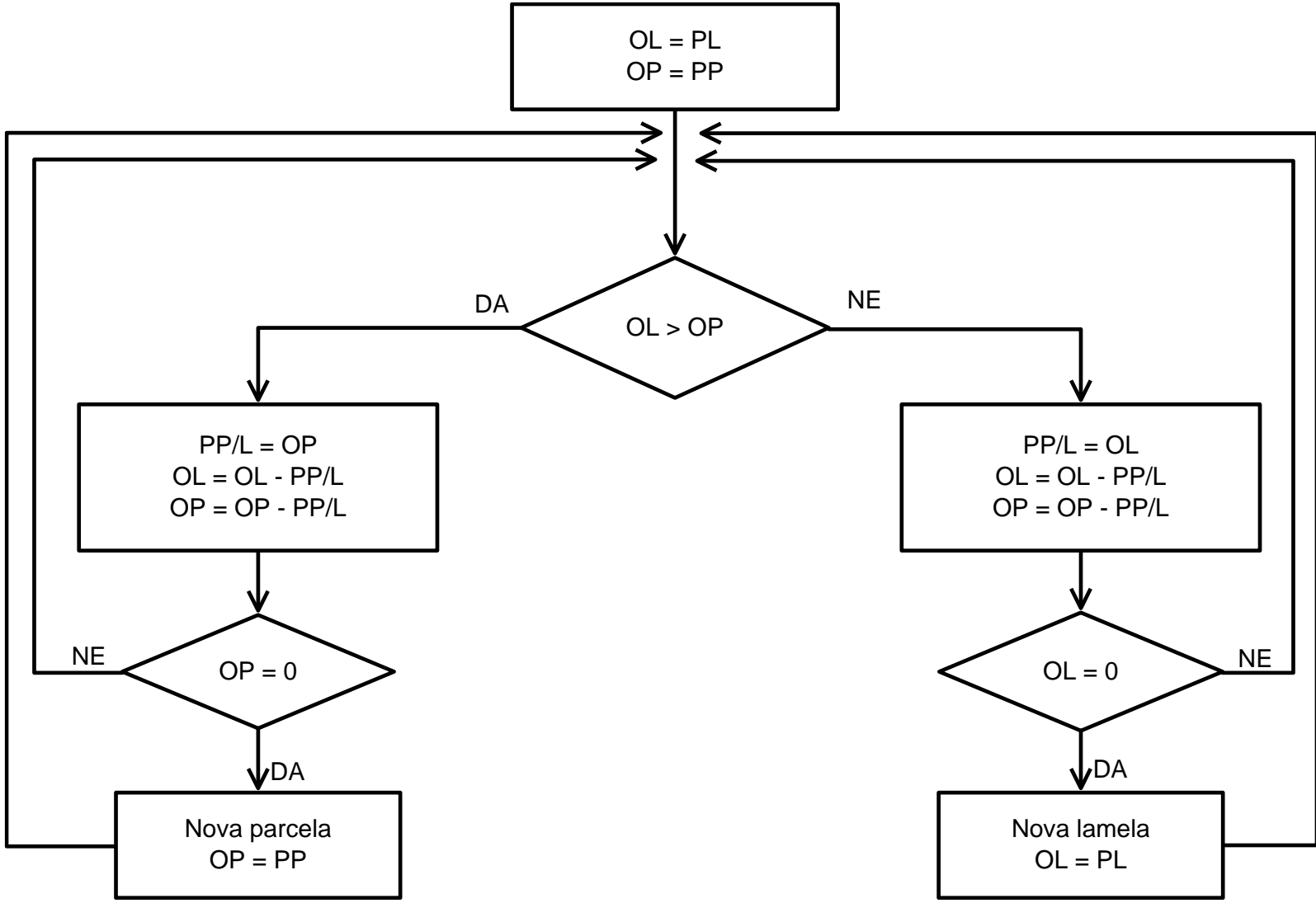
....

Kontrola:

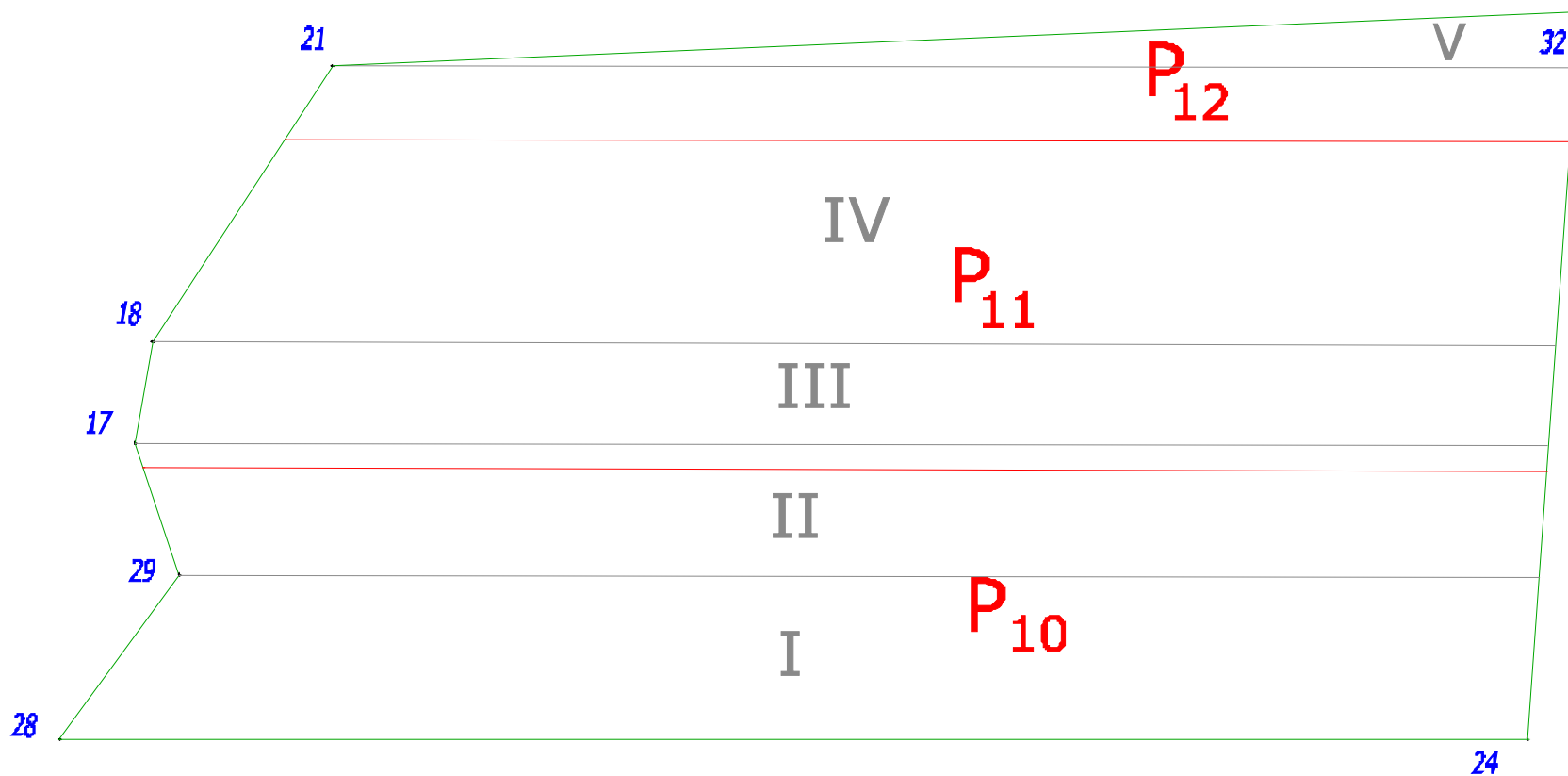
$$\sum P_i = P_{izkoordinata}$$

$$\Delta P = \pm 10 m^2$$

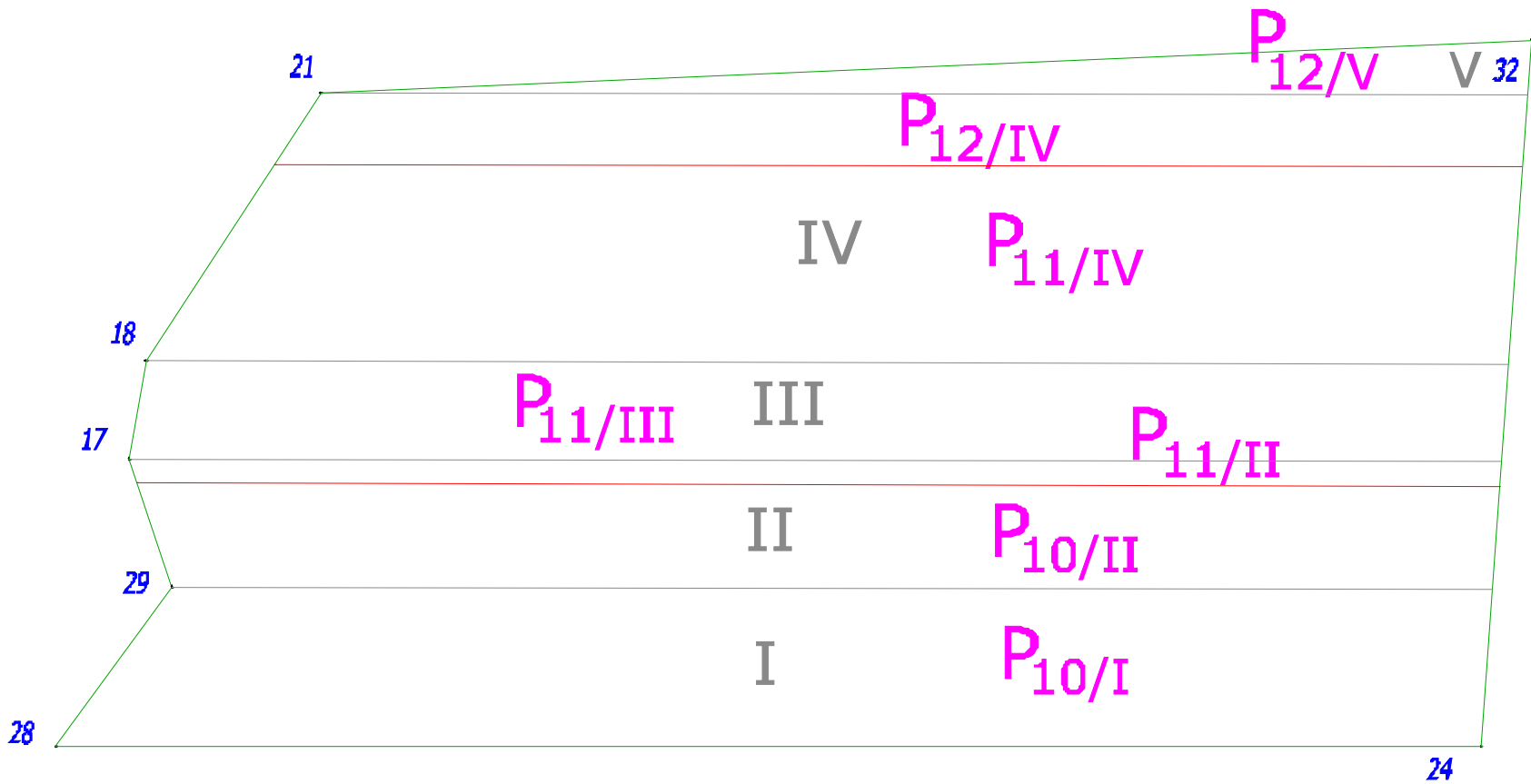
Oznake: PL - površina lamele  
 OL - ostatak površine lamele  
 PP - površina parcele  
 OP - ostatak površine parcele  
 PP/L - deo površine parcele P u lameli L (npr. P10/III)



# Formiranje novih parcela



# Delovi novih parcela



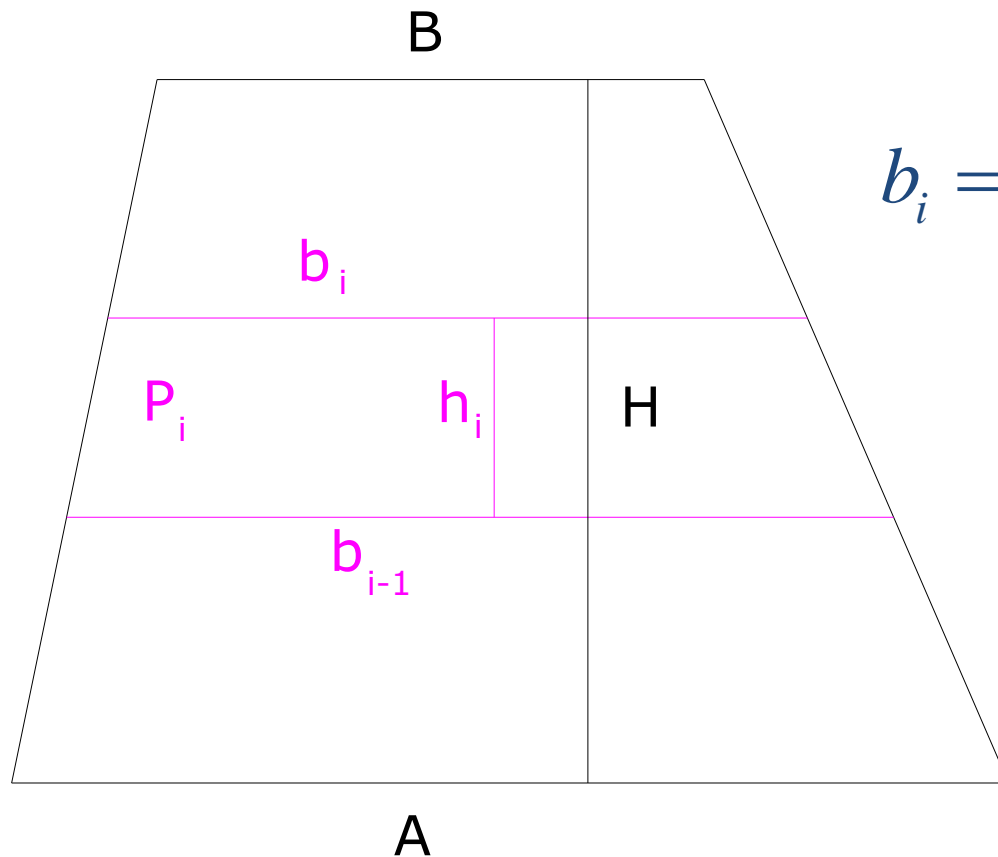
# Deoba lamela

Dalje se problem svodi na:

- deobu lamele II na dva dela:  $P_{10/II}$  i  $P_{11/II}$
- deobu lamele IV na dva dela:  $P_{11/IV}$  i  $P_{12/IV}$

# Deoba lamele u obliku trapeza na dva ili više delova prema zadatim površinama

Opšti slučaj:

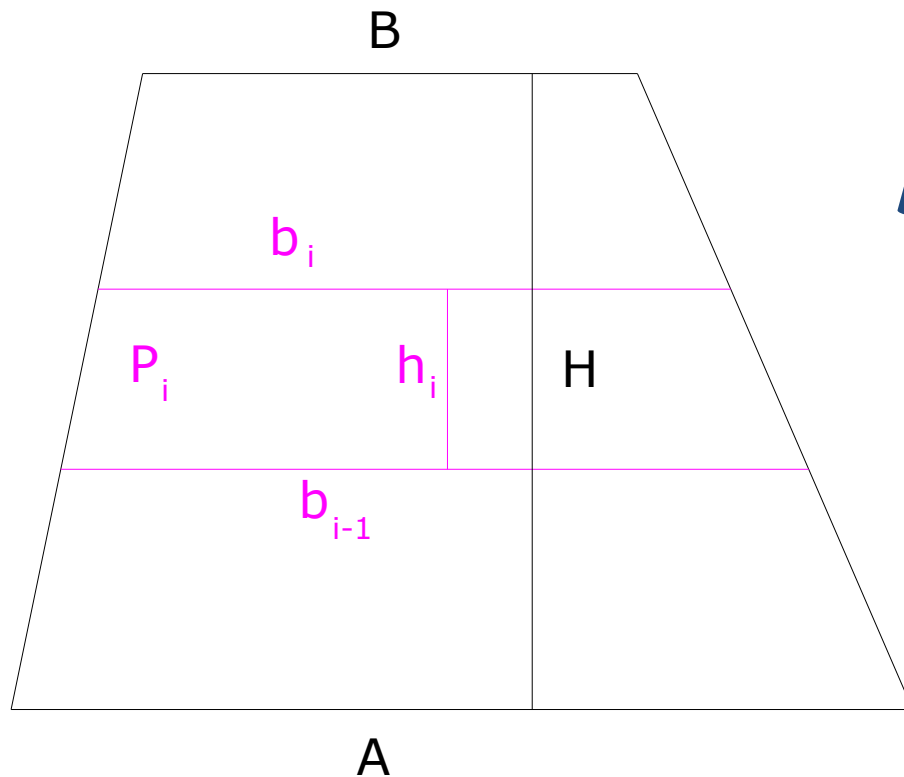


$$b_i = \sqrt{b_{i-1}^2 - \frac{A-B}{H} 2P_i}$$

$$h_i = \frac{2P_i}{b_{i-1} + b_i}$$

# Deoba lamele u obliku trougla na dva ili više delova prema zadatim površinama

Za slučaj trougla mogu se iskoristiti iste formule, a za B se uzme vrednost 0.

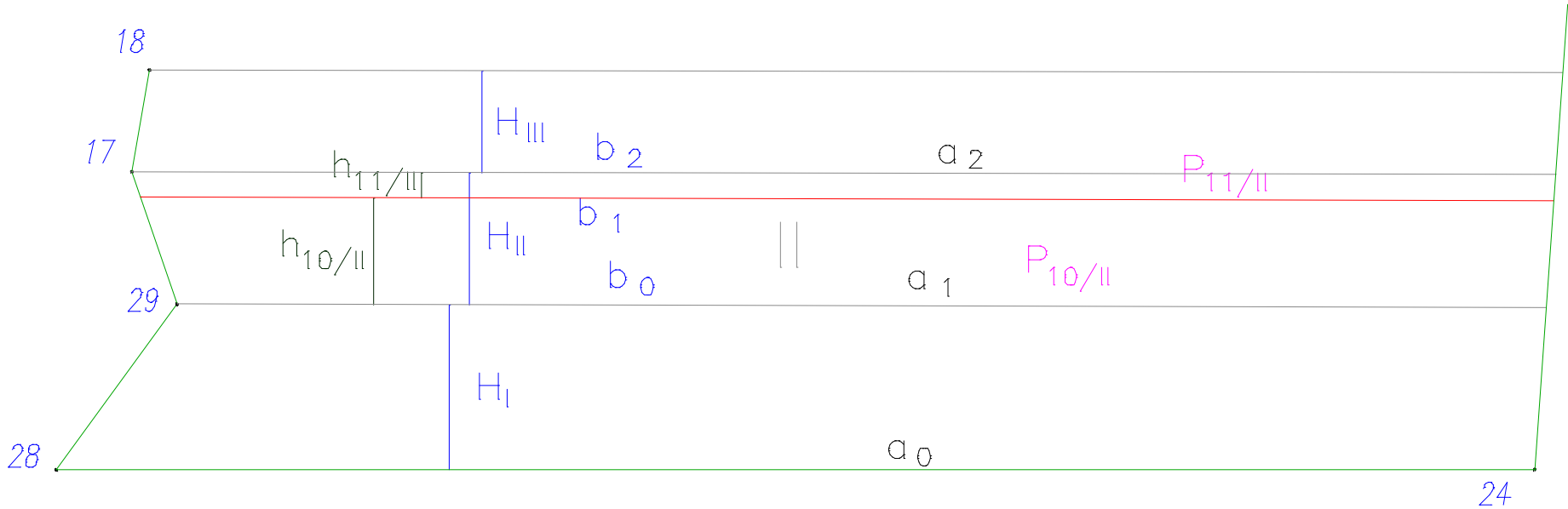


$$b_i = \sqrt{b_{i-1}^2 - \frac{A-B}{H} 2P_i}$$

$$h_i = \frac{2P_i}{b_{i-1} + b_i}$$



# Deoba lamele II



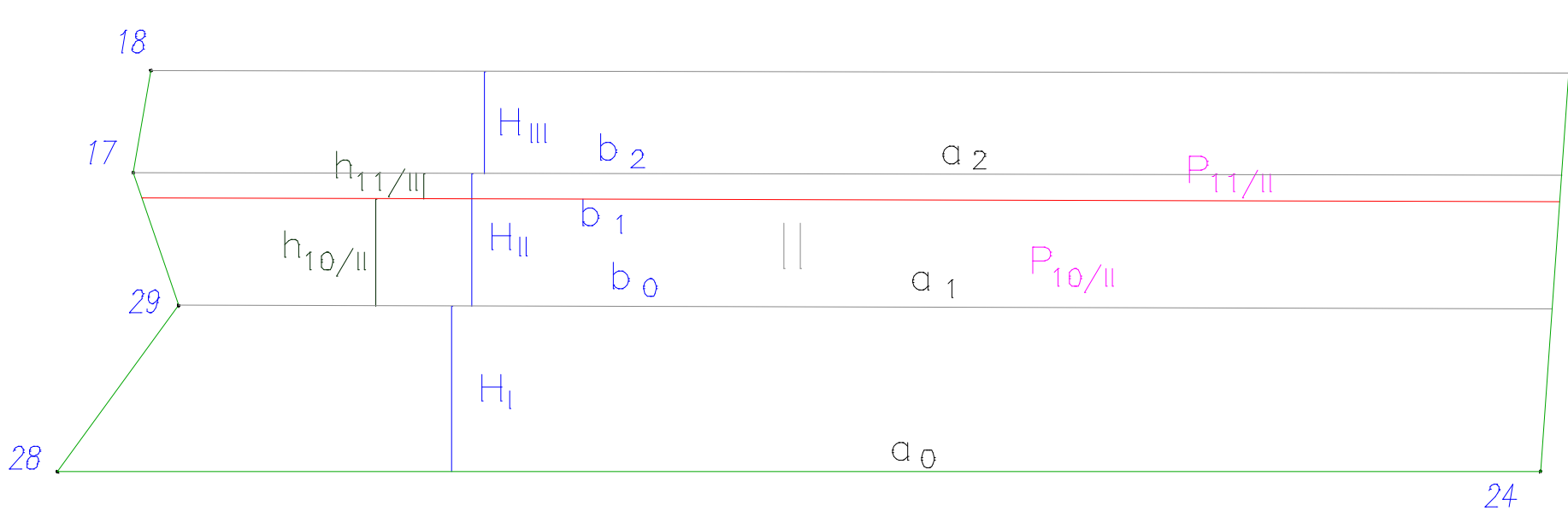
$$b_0 = a_1 \quad b_1 = \sqrt{b_0^2 - \frac{a_1 - a_2}{H_{II}} \cdot 2 \cdot P_{10/II}}$$

$$b_2 = \sqrt{b_1^2 - \frac{a_1 - a_2}{H_{II}} \cdot 2 \cdot P_{11/II}}$$

Kontrola:

$$b_2 = a_2$$

# Deoba lamele II



$$h_{10/II} = \frac{2 \cdot P_{10/II}}{b_0 + b_1}$$

Kontrola:

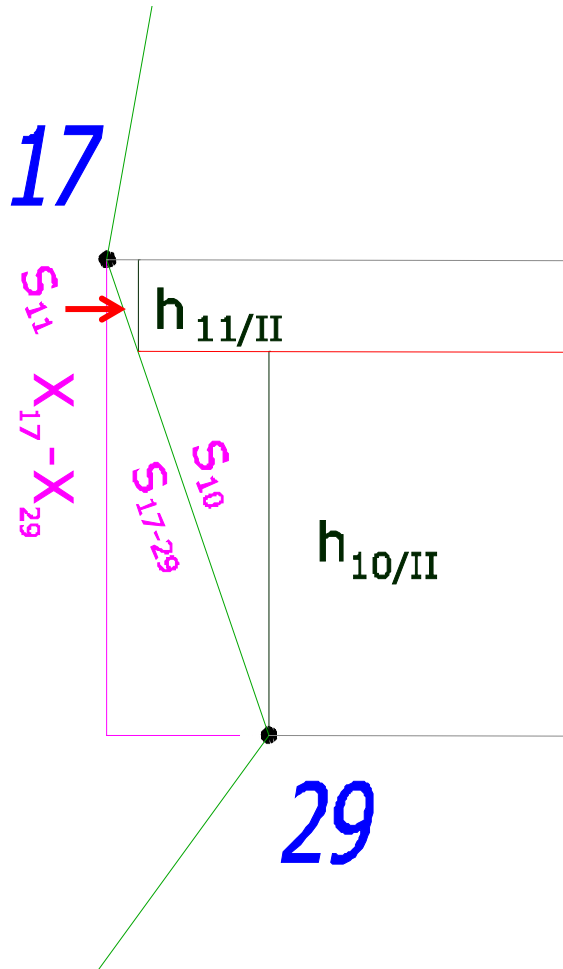
$$h_{10/II} + h_{11/II} = H_{II}$$

$$h_{11/II} = \dots$$

# Deoba lamele IV

- Uraditi samostalno

# Računanje frontova



$$\frac{S_{17-29}}{X_{17} - X_{29}} = \frac{S_{10}}{h_{10/II}} = \frac{S_{11}}{h_{11/II}}$$

$$S_{10} = \frac{S_{17-29}}{X_{17} - X_{29}} \cdot h_{10/II}$$

$$S_{11} = \dots$$

Kontrola:

$$S_{10} + S_{11} = S_{17-29}$$

# Računanje frontova

- Ostale potrebne frontove sračunati samostalno.

# Skica obeležavanja

