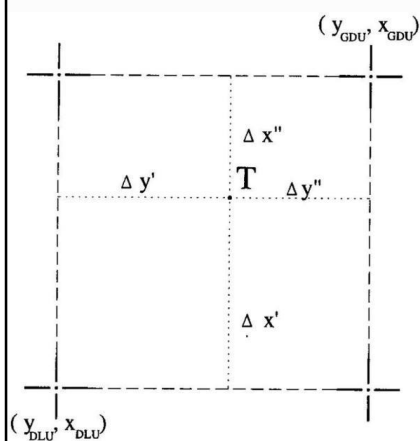


4) Crtanje podužnog profila terena na osnovu podataka situacionog plana

Grafičko određivanje koordinata tačaka



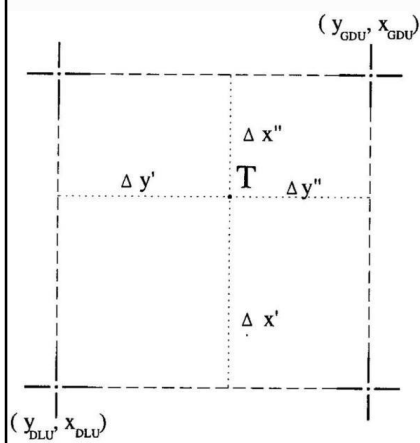
DLU-donji lijevi ugao
GDU-gornji desni ugao

koordinatna razlike (u razmjeri plana)

$$\Delta y = Y_{GDU} - Y_{DLU} = m$$

$$\Delta x = X_{GDU} - X_{DLU} = m$$

Grafičko određivanje koordinata tačaka



Grafi ki mjerene koordinatne razlike za nepoznatu ta ku T

y', y (mm) (m)

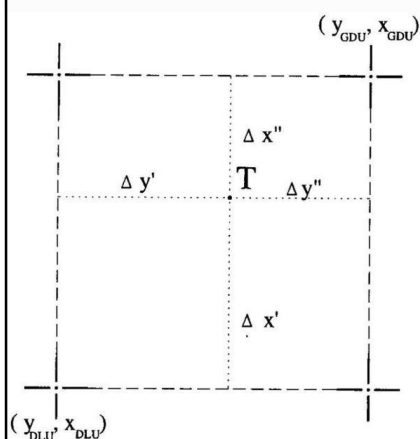
x', x (mm) (m)

Koordinatne razlike koje su u mm množe se sa imeniocem razmjere M i podijele sa 1000 da bi se dobile u m.

Razmjera R 1:**M**, **M**-imenilac razmjere.

npr. $y'(\text{mm}) \cdot \mathbf{M}/1000 = (\text{m})$

Grafičko određivanje koordinata tačaka

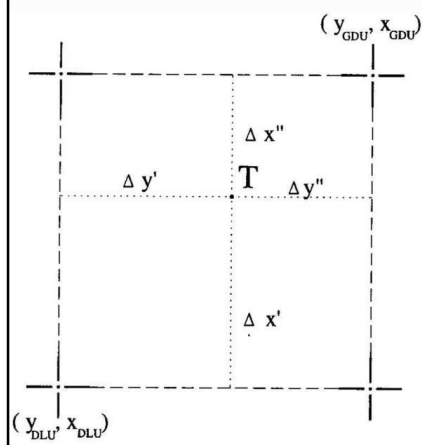


Koeficijent deformacija

$$k_y = \frac{\Delta y}{\Delta y' + \Delta y''} \quad \text{za y pravac}$$

$$k_x = \frac{\Delta x}{\Delta x' + \Delta x''} \quad \text{za x pravac}$$

Grafičko određivanje koordinata tačaka



Koordinatne razlike:

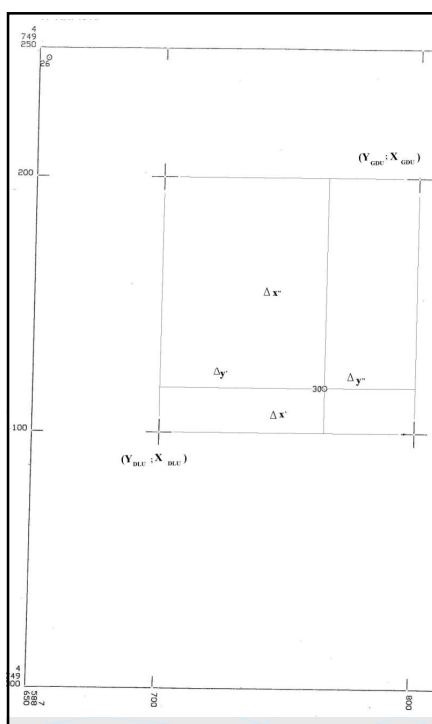
$$Y_T = Y_{DLU} + ky \cdot \Delta y' = (m)$$

$$X_T = X_{DLU} + kx \cdot \Delta x' = (m)$$

Kontrola

$$Y_T = Y_{GDU} - ky \cdot \Delta y'' = (m)$$

$$X_T = X_{GDU} - kx \cdot \Delta x'' = (m)$$



Primer:

1. Pravougle koordinate DLU I GDU

$$Y_{DLU} = 7588700 \quad Y_{GDU} = 7588800$$

$$X_{DLU} = 4749100 \quad X_{GDU} = 4749200$$

2. Koordinatne razlike

$$\Delta y = Y_{GDU} - Y_{DLU} = 100 \text{ m}$$

$$\Delta x = X_{GDU} - X_{DLU} = 100 \text{ m}$$

