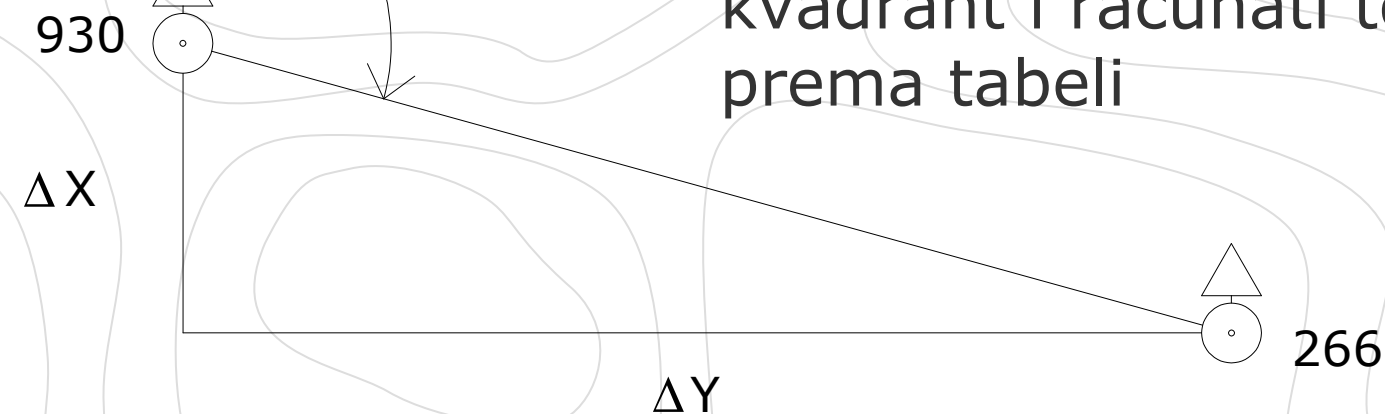


$$\Delta Y = Y_b - Y_a = Y_{266} - Y_{930}$$

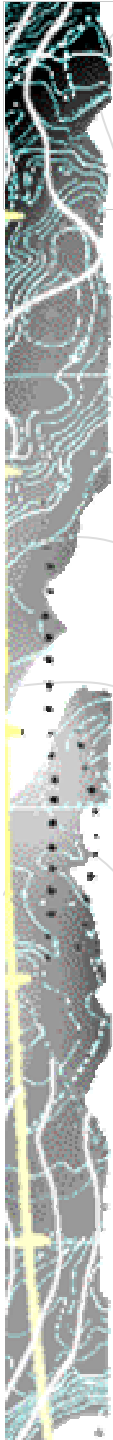
$$\Delta X = X_b - X_a = X_{266} - X_{930}$$

Prema znaku ΔX i ΔY odrediti kvadrant i računati $\text{tg}\alpha$ prema tabeli



$$\text{tg}\alpha = \frac{\Delta Y}{\Delta X} \quad \text{ili} \quad \text{tg}\alpha = \left| \frac{\Delta X}{\Delta Y} \right|$$

Računanje v prema tabeli



kvadrant	ΔY	ΔX	$tg\alpha$	v_a^b
I	+	+	$\frac{\Delta Y}{\Delta X}$	α
II	+	-	$\left \frac{\Delta X}{\Delta Y} \right $	$\alpha + 90^\circ$
III	-	-	$\frac{\Delta Y}{\Delta X}$	$\alpha + 180^\circ$
IV	-	+	$\left \frac{\Delta X}{\Delta Y} \right $	$\alpha + 270^\circ$



Računanje arctg α i v pomoću digitrona

Casio:

7.69190 shift tan 82.5927014 shift ° ' " 82°35°34

82°35°34° + 90°0°0° = 172°35°34

Obični:

7.69190 2nf tan 82.5927014 2nf DEG 82.3534

82.3534 DEG 82.5927014 + 90.0000 DEG 90

= 172.5927014 2nf DEG 172.3534

Računanje dužine

$$D_{a-b} = \sqrt{\Delta Y^2 + \Delta X^2}$$

Kontrola direkcionog ugla

$$\Delta Y' = \Delta X + \Delta Y$$

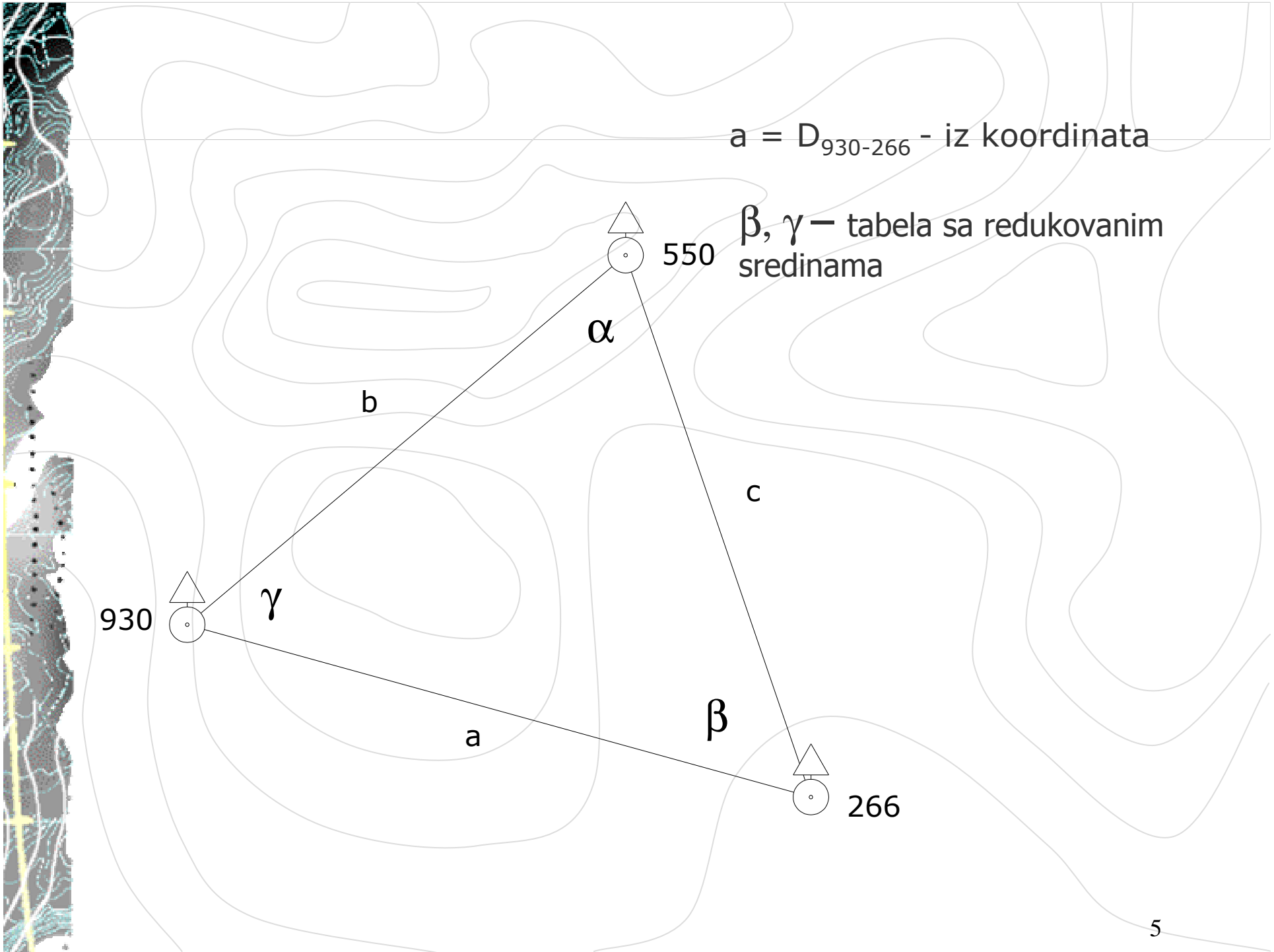
$$\Delta X' = \Delta X - \Delta Y$$

Sračunati α' i v' po tabeli na isti način kao i v

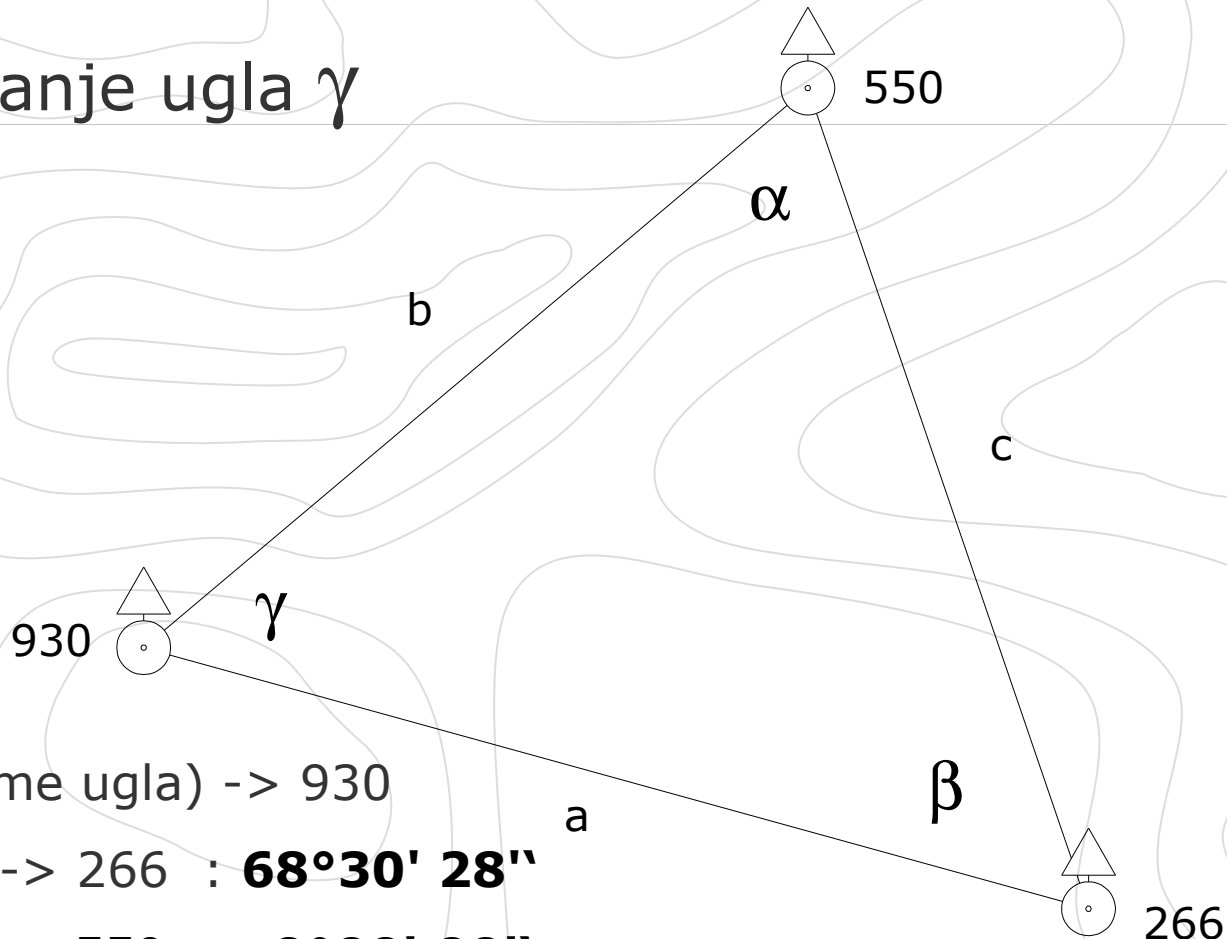
Proveriti da li je $v' - v = 45^\circ$

Kontrola dužine

$$D_{a-b} = \frac{\Delta Y}{\sin v_a^b} = \frac{\Delta X}{\cos v_a^b}$$



Računanje ugla γ



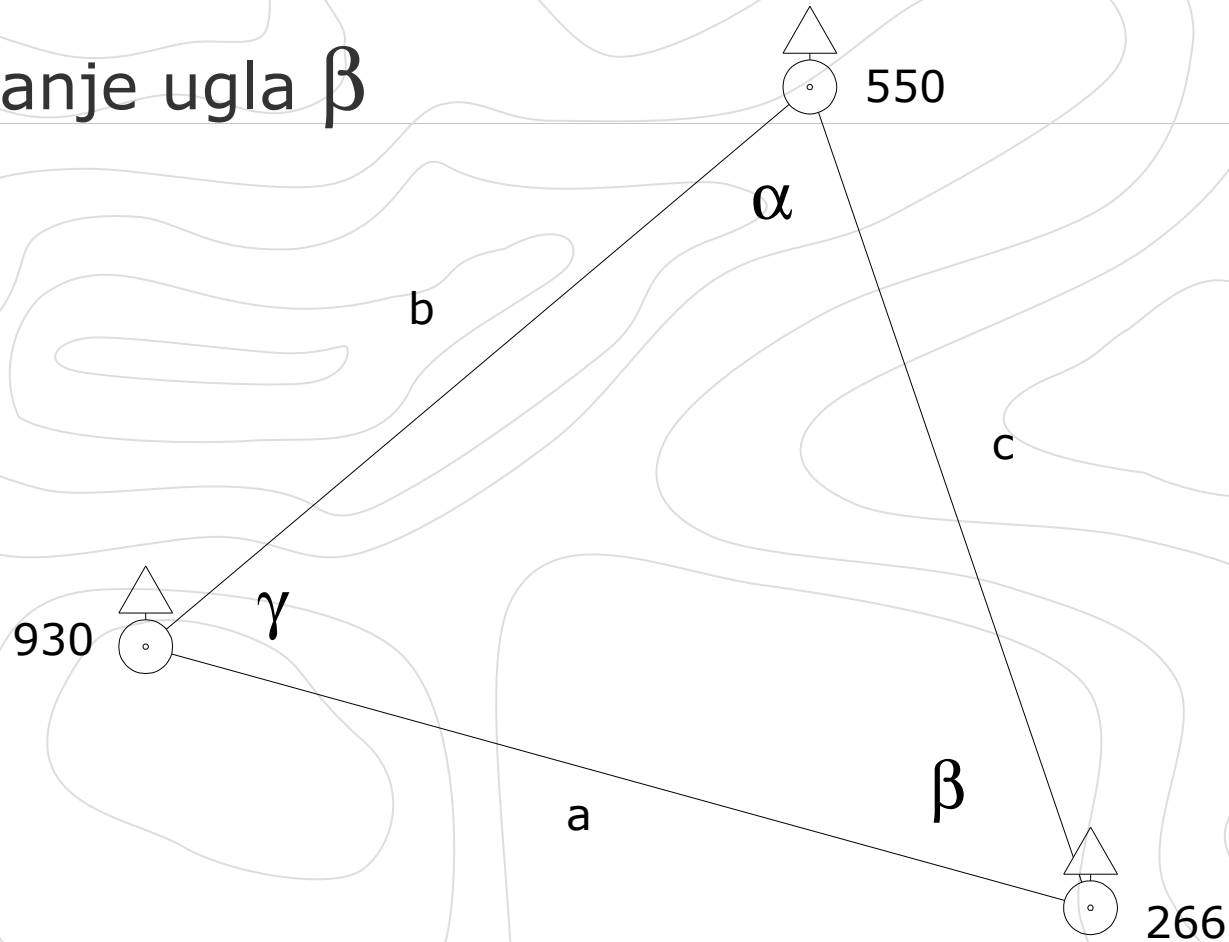
Stanica (teme ugla) -> 930

Desni krak -> 266 : **$68^{\circ}30'28''$**

Levi krak -> 550 : **$0^{\circ}00'00''$**

Levi - Desni = **$68^{\circ}30'28''$**

Računanje ugla β

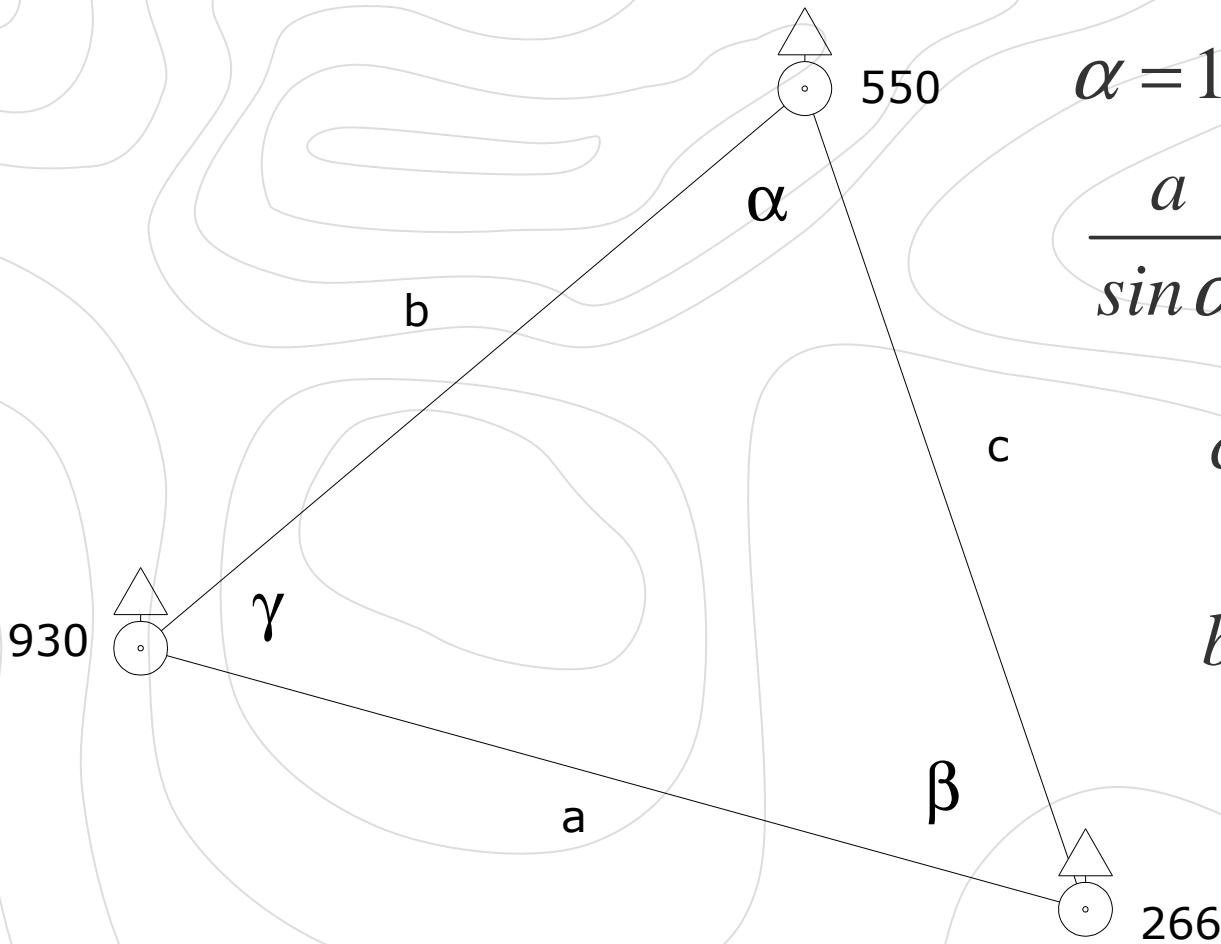


Stanica (teme ugla) -> 266

Desni krak -> 550 : **347°..'** .."

Levi krak -> 930 : **293°..'** .."

Levi - Desni = **53°..'** .."



$$\alpha + \beta + \gamma = 180$$

$$\alpha = 180 - (\beta + \gamma)$$

$$\frac{a}{\sin \alpha} = \frac{b}{\sin \beta} = \frac{c}{\sin \gamma}$$

$$c = \frac{a}{\sin \alpha} \sin \gamma$$

$$b = \frac{a}{\sin \alpha} \sin \beta$$

Kontrola

