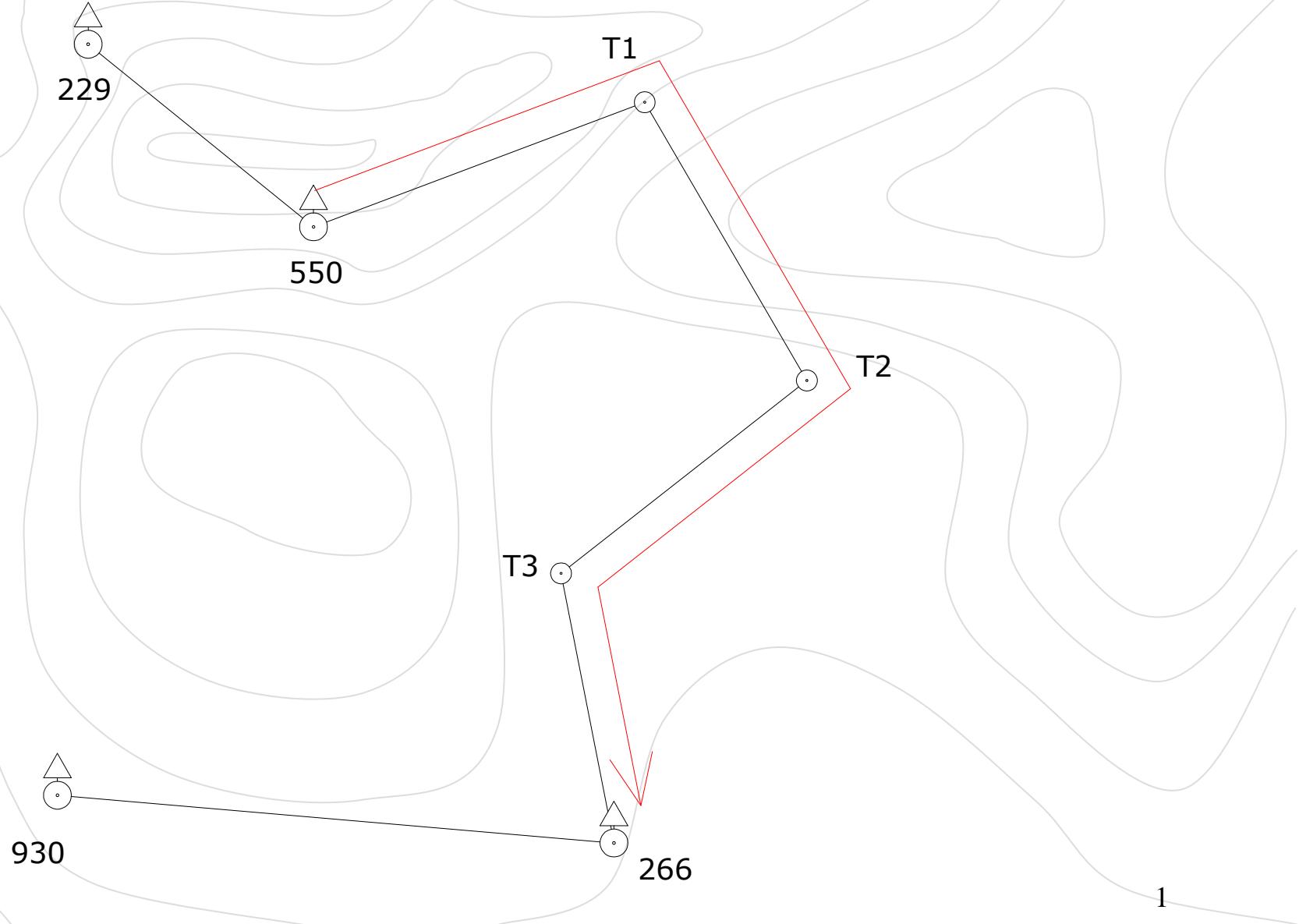
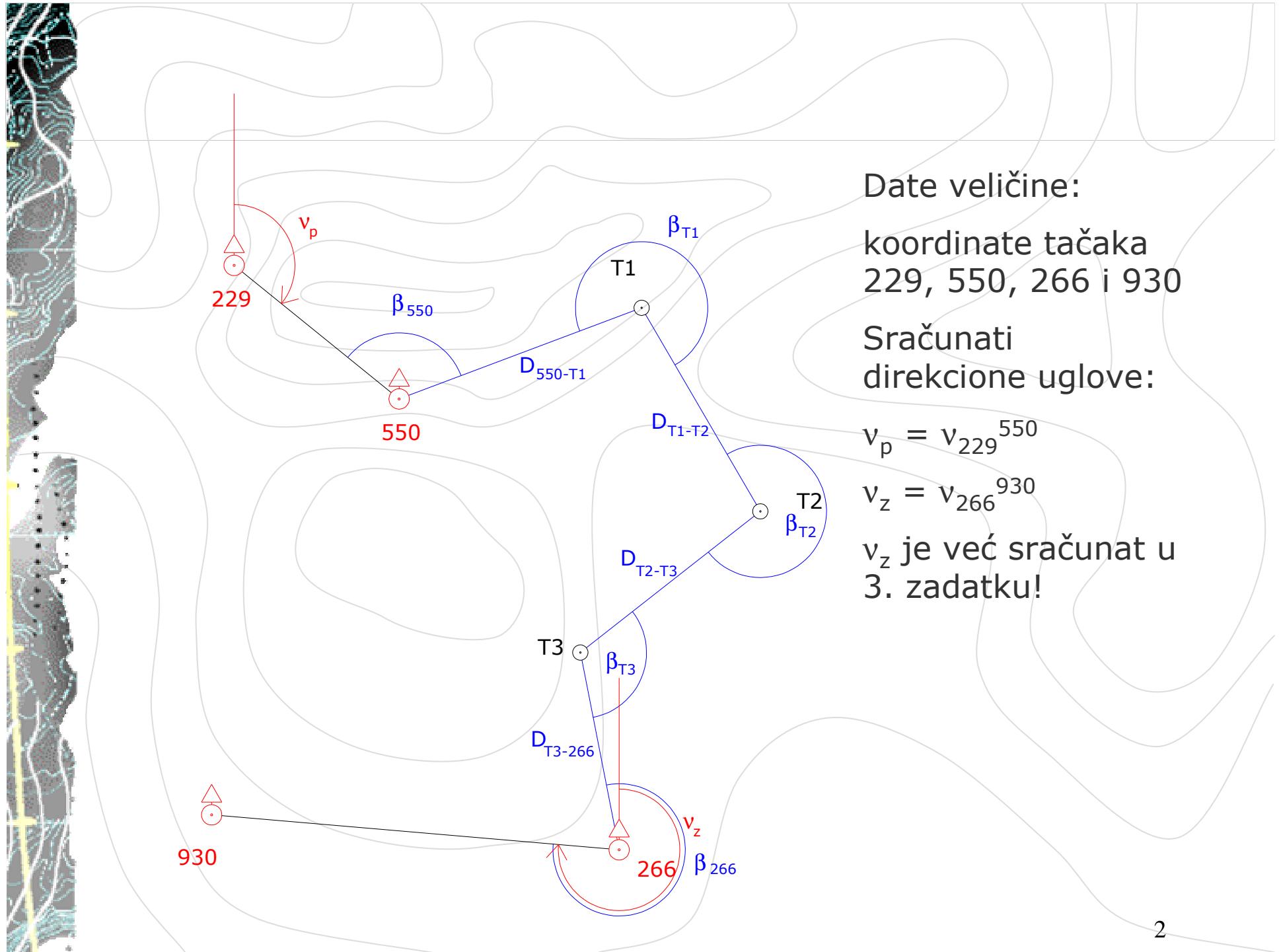
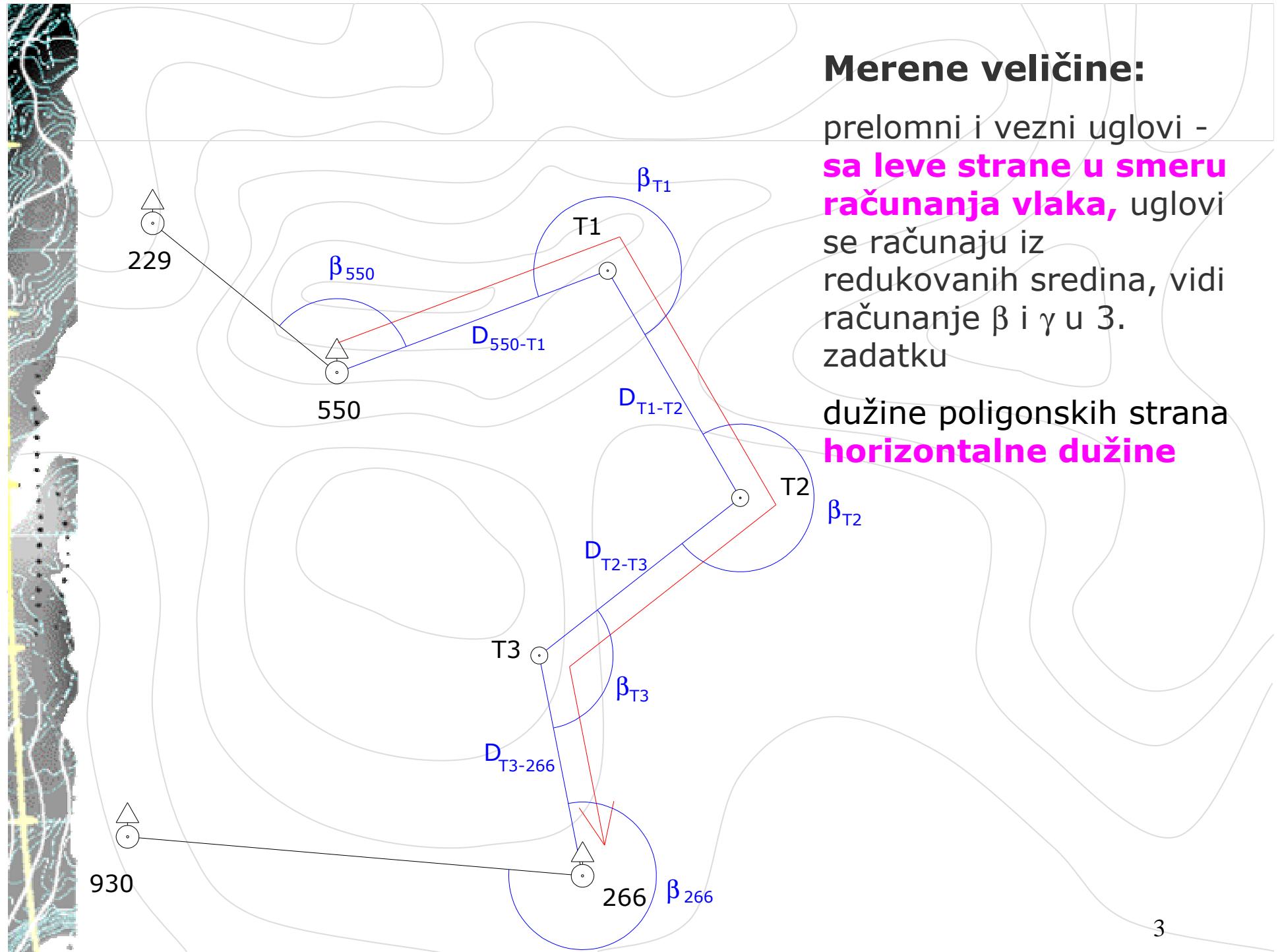


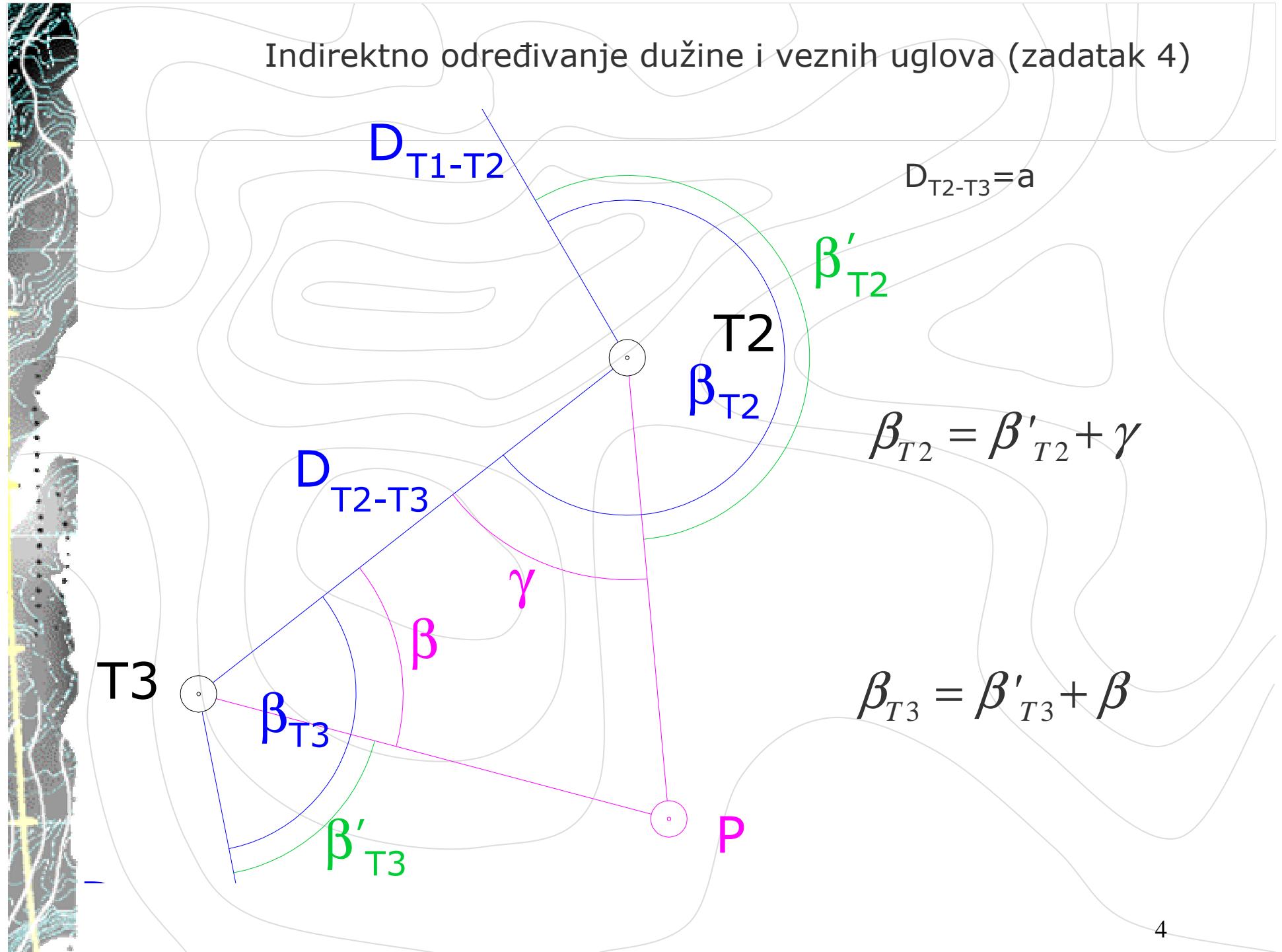
## SMER RAČUNANJA POLIGONSKOG VLAKA

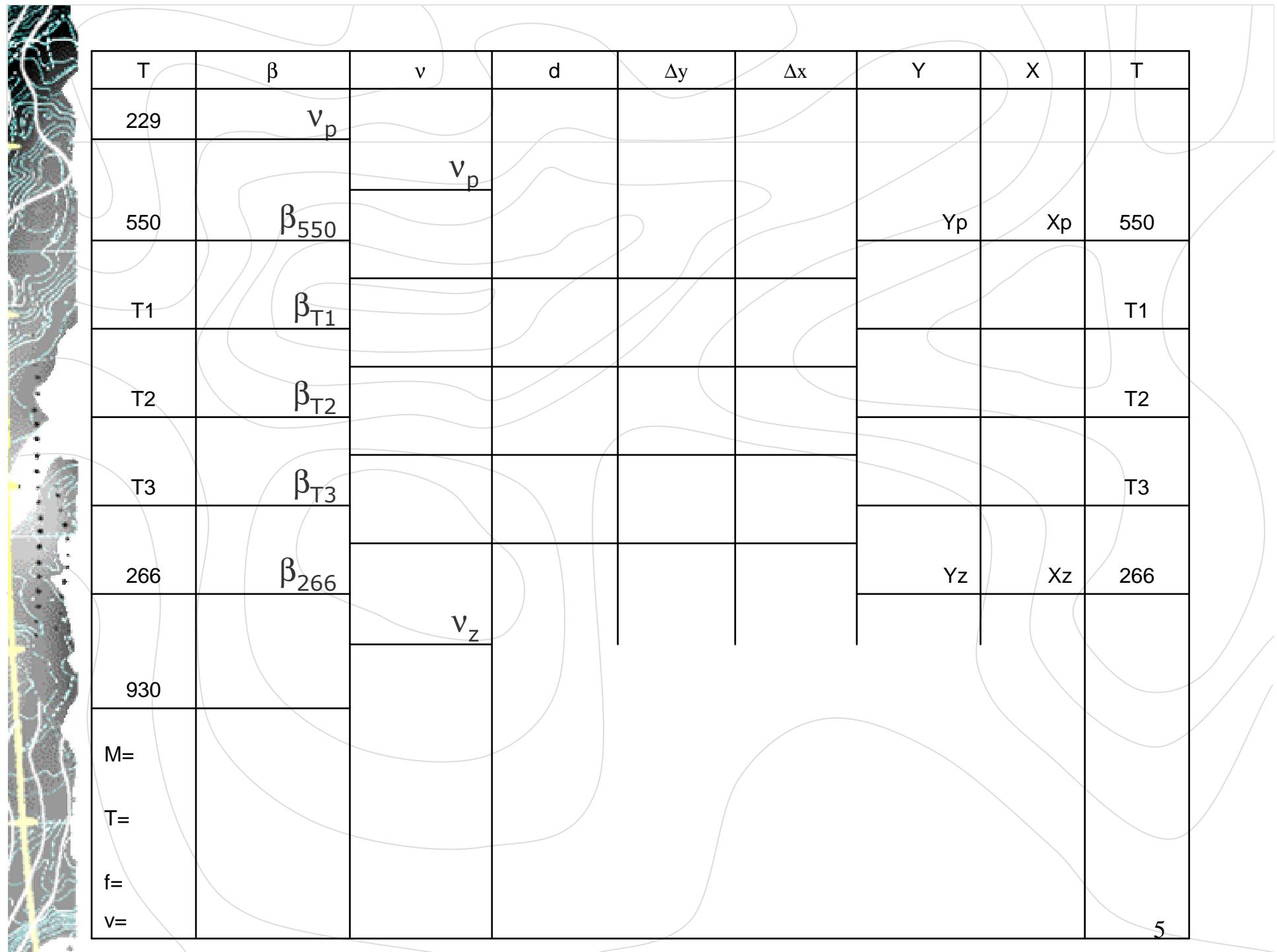
(može se odabratи smer po želji, ali dalji postupak zavisi od odabranog smera)











Uglovno odstupanje  $f_\beta$  se računa:

$$f_\beta = T - M$$

Gde su:

$$T = \nu_z + n * 180^\circ \quad n - \text{broj prelomnih i veznih uglova}$$

$$M = \nu_p + \sum \beta_i$$

Pri tome mora biti:

$$f_\beta \leq \Delta_{dozv}$$

Računanje popravaka:

$$\nu_\beta = \frac{f_\beta}{n}$$

Pri zaokruživanju voditi računa  
da bude:

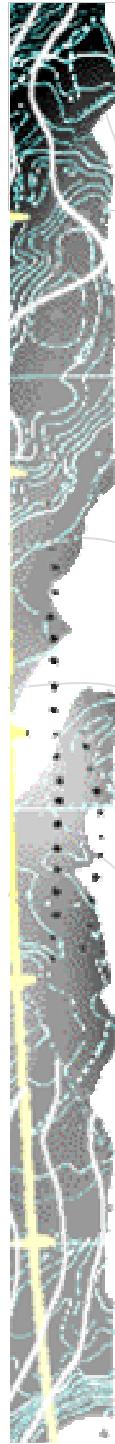
$$\sum \nu_{\beta_i} = f_\beta$$



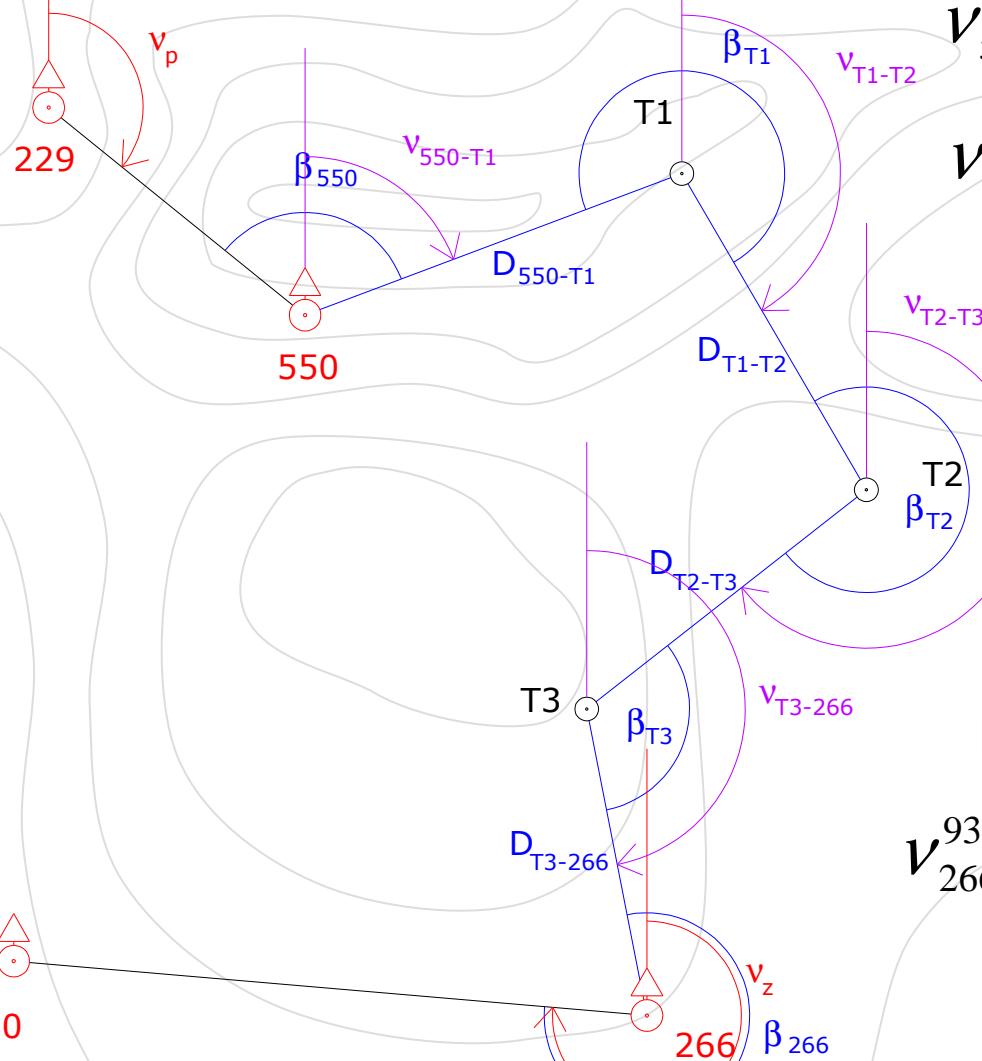
T	$\beta$	v	d	$\Delta y$	$\Delta x$	Y	X	T
229		$v_p$						
550	$\beta_{550}$		$v_p$			$y_p$	$x_p$	550
T1	$\beta_{T1}$							T1
T2	$\beta_{T2}$							T2
T3	$\beta_{T3}$							T3
266	$\beta_{266}$					$y_z$	$x_z$	266
930		$v_z$						
M=		$v_p + \Sigma \beta$						
T=		$v_z + n180$						
f=								
v=								
			T-M					



T	$\beta$	v	d	$\Delta y$	$\Delta x$	Y	X	T
229		$v_p$						
550		$v_\beta$	$v_p$					
	$\beta_{550}$							
T1		$v_\beta$						
	$\beta_{T1}$							
T2		$v_\beta$						
	$\beta_{T2}$							
T3		$v_\beta$						
	$\beta_{T3}$							
266		$v_\beta$						
	$\beta_{266}$							
930			$v_z$					
M=		$v_p + \Sigma \beta$						
T=		$v_z + n180$						
f=								
v=			$T-M$					



## Računanje direkcionih uglova poligonskih strana



$$v_{550}^{T1} = v_{229}^{550} + \beta_{550} + v_\beta \pm 180^\circ$$

$$v_{T1}^{T2} = v_{550}^{T1} + \beta_{T1} + v_\beta \pm 180^\circ$$

nastavi niz ...

Kontrola

$$v_{266}^{930} = v_{T3}^{266} + \beta_{266} + v_\beta \pm 180^\circ$$

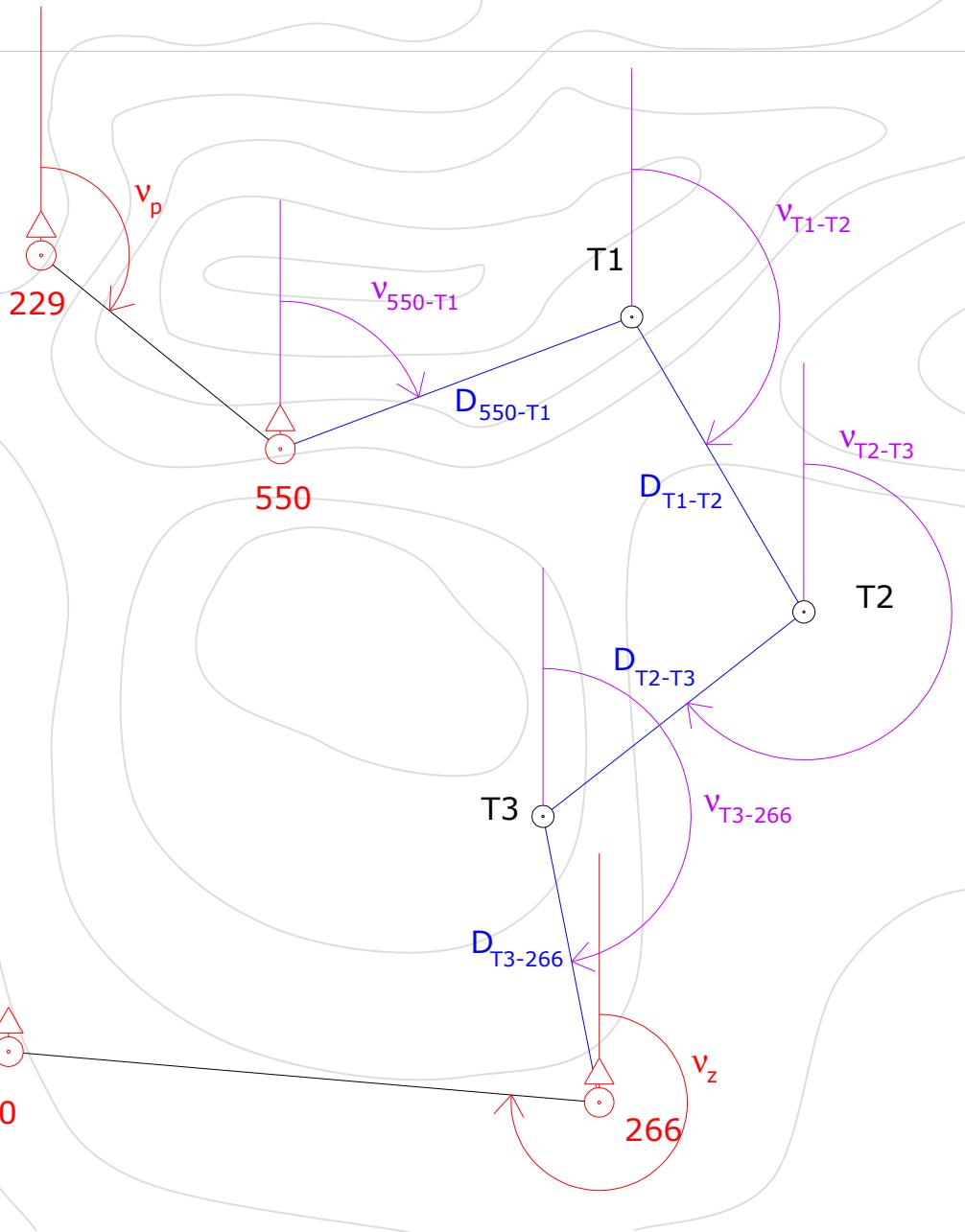


T	$\beta$	v	d	$\Delta y$	$\Delta x$	Y	X	T
229		$v_p$						
550	$v_\beta$	$v_p$				$y_p$	$x_p$	550
T1	$v_\beta$	$\beta_{T1}$						T1
T2	$v_\beta$	$\beta_{T2}$						T2
T3	$v_\beta$	$\beta_{T3}$						T3
266	$v_\beta$	$\beta_{266}$				$y_z$	$x_z$	266
930			$v_z$					
M=		$v_p + \sum \beta$						
T=		$v_z + n180$						
f=								
v=			T-M					
								10

Annotations on the right side of the table:

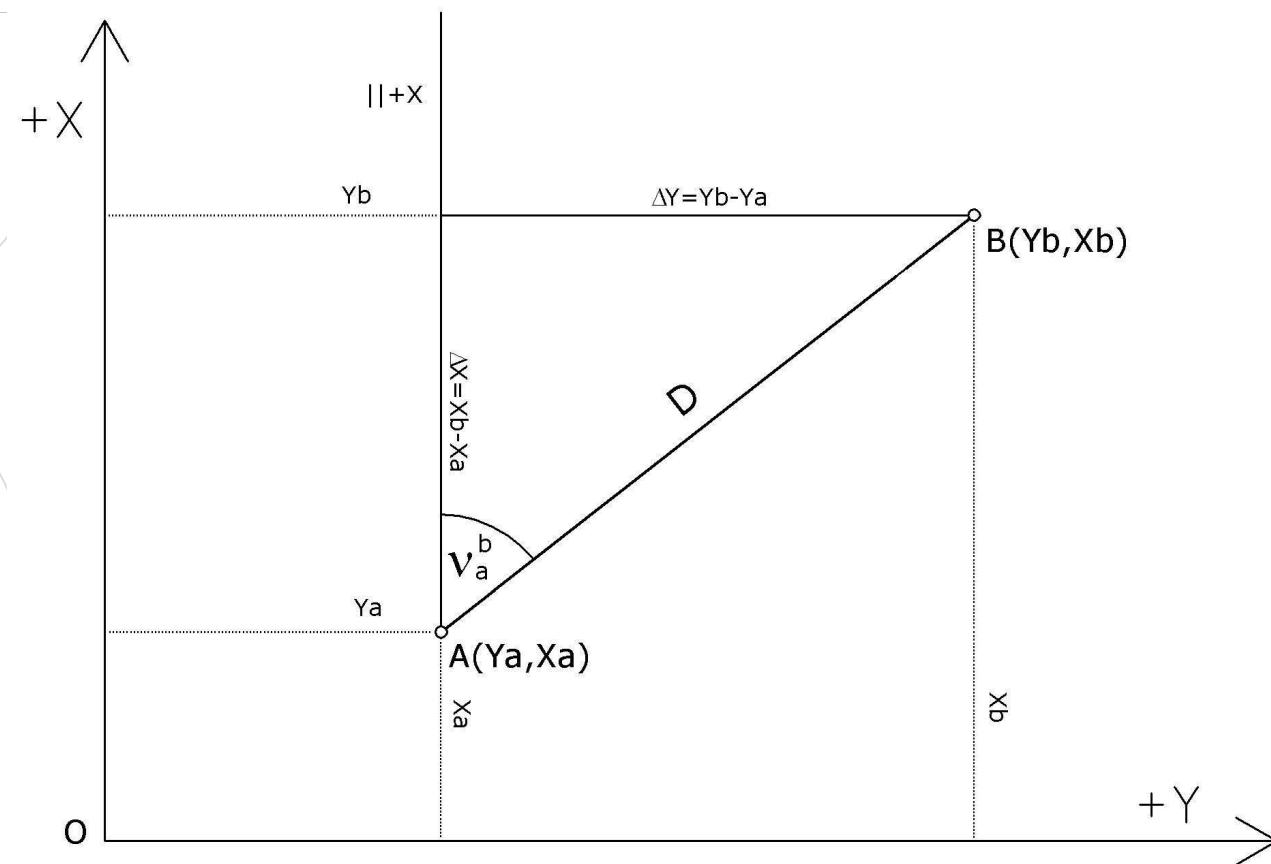
- A red circle highlights  $v_\beta$  at the 550 depth level.
- A red circle highlights  $\beta_{550}$  at the 550 depth level.
- A red arrow points from  $v_p$  at the 229 depth level to  $v_p$  at the 550 depth level.
- A red arrow points from  $v_p$  at the 550 depth level to  $v_{550}$  at the T1 depth level.
- A red arrow points from  $v_{550}$  at the T1 depth level to  $v_{550}$  at the 266 depth level.
- A red circle highlights  $v_z$  at the 266 depth level.
- A red circle highlights  $v_z + n180$  at the 930 depth level.

## Računanje koordinatnih razlika između poligonskih tačaka u vlaku



- direkcionih uglovi
- dužine pol. strana

Za dato  $v_a^b$ , dužinu i datu tačku (opšti slučaj):



$$\Delta y_{a-b} = d_{a-b} \cdot \sin v_a^b$$

$$\Delta x_{a-b} = d_{a-b} \cdot \cos v_a^b$$

$$Y_b = Y_a + \Delta y_{a-b}$$

$$X_b = X_a + \Delta x_{a-b}$$

# Računanje koordinatnih razlika poligonskih strana

$$\Delta y_{550-T1} = d_{550-T1} \cdot \sin \nu_{550}^{T1}$$

$$\Delta x_{550-T1} = d_{550-T1} \cdot \cos \nu_{550}^{T1}$$

$$\Delta y_{T1-T2} = d_{T1-T2} \cdot \sin \nu_{T1}^{T2}$$

$$\Delta x_{T1-T2} = d_{T1-T2} \cdot \cos \nu_{T1}^{T2}$$

$$\Delta y_{T2-T3} = d_{T2-T3} \cdot \sin \nu_{T2}^{T3}$$

$$\Delta x_{T2-T3} = d_{T2-T3} \cdot \cos \nu_{T2}^{T3}$$

$$\Delta y_{T3-266} = d_{T3-266} \cdot \sin \nu_{T3}^{266}$$

$$\Delta x_{T3-266} = d_{T3-266} \cdot \cos \nu_{T3}^{266}$$



T	$\beta$	v	d	$\Delta y$	$\Delta x$	Y	X	T
229		$v_p$						
550	$\beta_{550}$	$v_\beta$	$v_p$			$Y_p$	$X_p$	550
T1	$\beta_{T1}$	$v_\beta$	$v_{550-T1}$	$D_{550-T1}$	$\Delta y_{550-T1}$	$\Delta x_{550-T1}$		T1
T2	$\beta_{T2}$	$v_\beta$						T2
T3	$\beta_{T3}$	$v_\beta$						T3
266	$\beta_{266}$	$v_\beta$				$Y_z$	$X_z$	266
930		$v_z$						
M=		$v_p + \Sigma \beta$						
T=		$v_z + n180$						
f=								
v=			$T-M$					

Računanje linearnih odstupanja:

$$f_Y = T_Y - M_Y$$

$$f_X = T_X - M_X$$

$$T_Y = Y_{266} - Y_{550}$$

$$T_X = X_{266} - X_{550}$$

$$M_Y = \sum \Delta y$$

$$M_X = \sum \Delta x$$

Ukupno linearno odstupanje:

$$f_d = \sqrt{f_Y^2 + f_X^2}$$

Pri čemu mora biti:

$$f_d \leq \Delta_{dozv}$$



T	$\beta$	v	d	$\Delta y$	$\Delta x$	Y	X	T
229	$v_p$							
550	$v_\beta$	$v_p$				$Y_p$	$X_p$	550
T1	$\beta_{550}$	$v_\beta$	$v_{550}^{T1}$	$D_{550-T1}$	$\Delta y_{550-T1}$	$\Delta x_{550-T1}$		T1
T2	$\beta_{T1}$	$v_\beta$			$\Delta y_{T1-T2}$	$\Delta x_{T1-T2}$		T2
T3	$\beta_{T2}$	$v_\beta$			$\Delta y_{T2-T3}$	$\Delta x_{T2-T3}$		T3
266	$\beta_{T3}$	$v_\beta$			$\Delta y_{T3-266}$	$\Delta x_{T3-266}$	$Y_z$	$X_z$
930	$\beta_{266}$	$v_z$	M=	$\Sigma \Delta y$	$\Sigma \Delta x$			
M=	$v_p + \Sigma \beta$		T=	$Y_z - Y_p$	$X_z - X_p$			
T=	$v_z + n180$		f=	$T_y - M_y$	$T_x - M_x$			
f=			fd=					
v=		$T - M$						

## Računanje popravaka:

$$v_{\Delta y} = \frac{f_Y}{\sum d_i} \cdot d_i$$

$$v_{\Delta x} = \frac{f_X}{\sum d_i} \cdot d_i$$

Pa za svaku poligonsku stranu imamo:

$$v_{\Delta y_{550-T1}} = \frac{f_Y}{\sum d_i} \cdot d_{550-T1}$$

$$v_{\Delta x_{550-T1}} = \frac{f_X}{\sum d_i} \cdot d_{550-T1}$$

$$v_{\Delta y_{T1-T2}} = \frac{f_Y}{\sum d_i} \cdot d_{T1-T2}$$

$$v_{\Delta x_{T1-T2}} = \frac{f_X}{\sum d_i} \cdot d_{T1-T2}$$

$$v_{\Delta y_{T2-T3}} = \frac{f_Y}{\sum d_i} \cdot d_{T2-T3}$$

$$v_{\Delta x_{T2-T3}} = \frac{f_X}{\sum d_i} \cdot d_{T2-T3}$$

$$v_{\Delta y_{T3-266}} = \frac{f_Y}{\sum d_i} \cdot d_{T3-266}$$

$$v_{\Delta x_{T3-266}} = \frac{f_X}{\sum d_i} \cdot d_{T3-266}$$



Pri zaokruživanju popravaka treba voditi računa da bude:

$$\sum v_{\Delta y_i} = f_Y$$

$$\sum v_{\Delta x_i} = f_X$$

T	$\beta$	v	d	$\Delta y$	$\Delta x$	Y	X	T
229		$v_p$						
		$v_\beta$		$v_{\Delta y 1}$	$v_{\Delta x 1}$	$Y_p$	$X_p$	550
550	$\beta_{550}$							
		$v_\beta$	$v_{550}^{T1}$	$\Delta y_{550-T1}$	$\Delta x_{550-T1}$			
T1	$\beta_{T1}$			$v_{\Delta y 2}$	$v_{\Delta x 2}$			T1
		$v_\beta$		$\Delta y_{T1-T2}$	$\Delta x_{T1-T2}$			
T2	$\beta_{T2}$			$v_{\Delta y 3}$	$v_{\Delta x 3}$			T2
		$v_\beta$		$\Delta y_{T2-T3}$	$\Delta x_{T2-T3}$			
T3	$\beta_{T3}$			$v_{\Delta y 4}$	$v_{\Delta x 4}$			T3
		$v_\beta$		$\Delta y_{T3-266}$	$\Delta x_{T3-266}$			
266	$\beta_{266}$					$Y_z$	$X_z$	266
		$v_z$						
930								
M=		$v_p + \Sigma \beta$	M=	$\Sigma \Delta y$	$\Sigma \Delta x$			
T=		$v_z + n180$	T=	$Y_z - Y_p$	$X_z - X_p$			
f=			f=	$T_y - M_y$	$T_x - M_x$			
v=		T-M	fd=					

## Računanje koordinata poligonskih tačaka:

$$Y_{T1} = Y_{550} + \Delta y_{550-T1} + v_{\Delta y_1}$$

$$X_{T1} = X_{550} + \Delta x_{550-T1} + v_{\Delta x_1}$$

$$Y_{T2} = Y_{T1} + \Delta y_{T1-T2} + v_{\Delta y_2}$$

$$X_{T2} = X_{T1} + \Delta x_{T1-T2} + v_{\Delta x_2}$$

$$Y_{T3} = Y_{T2} + \Delta y_{T2-T3} + v_{\Delta y_3}$$

$$X_{T3} = X_{T2} + \Delta x_{T2-T3} + v_{\Delta x_3}$$

Za kontrolu računamo:

$$Y_{266} = Y_{T3} + \Delta y_{T3-266} + v_{\Delta y_4}$$

$$X_{266} = X_{T3} + \Delta x_{T3-266} + v_{\Delta x_4}$$

The table below summarizes the parameters extracted from the seismic wavelet profile:

T	$\beta$	v	d	$\Delta y$	$\Delta x$	Y	X	T
229		$v_p$						
550		$v_\beta$		$v_p$				
	$\beta_{550}$							
T1		$v_\beta$	$v_{550}^{T1}$	$D_{550-T1}$	$\Delta y_{550-T1}$	$\Delta x_{550-T1}$	$y_p$	550
T1	$\beta_{T1}$				$v_{\Delta y1}$	$v_{\Delta x1}$		
T2		$v_\beta$			$v_{\Delta y2}$	$v_{\Delta x2}$	$y_{T1}$	T1
T2	$\beta_{T2}$				$\Delta y_{T1-T2}$	$\Delta x_{T1-T2}$		
T3		$v_\beta$			$v_{\Delta y3}$	$v_{\Delta x3}$		
T3	$\beta_{T3}$				$\Delta y_{T2-T3}$	$\Delta x_{T2-T3}$		
266		$v_\beta$			$v_{\Delta y4}$	$v_{\Delta x4}$		
266	$\beta_{266}$				$\Delta y_{T3-266}$	$\Delta x_{T3-266}$		
930		$v_z$						
M=				M=	$\Sigma \Delta y$	$\Sigma \Delta x$		
T=		$v_p + \Sigma \beta$		T=	$y_z - y_p$			
f=		$v_z + n180$		f=	$x_z - x_p$			
v=		T-M		fd=	$ty - my$	$tx - mx$		



A table showing various parameters across different geological layers (T, β, ν, d, Δy, Δx, Y, X, T) and time steps (229, 550, T1, T2, T3, 266, 930). The table includes calculated values like v<sub>p</sub>, v<sub>β</sub>, v<sub>550</sub><sup>T1</sup>, D<sub>550-T1</sub>, v<sub>Δy1</sub>, Δy<sub>550-T1</sub>, v<sub>Δy2</sub>, Δy<sub>T1-T2</sub>, v<sub>Δy3</sub>, Δy<sub>T2-T3</sub>, v<sub>Δy4</sub>, Δy<sub>T3-266</sub>, v<sub>Δx1</sub>, Δx<sub>550-T1</sub>, v<sub>Δx2</sub>, Δx<sub>T1-T2</sub>, v<sub>Δx3</sub>, Δx<sub>T2-T3</sub>, v<sub>Δx4</sub>, Δx<sub>T3-266</sub>, Y<sub>p</sub>, X<sub>p</sub>, Y<sub>T1</sub>, X<sub>T1</sub>, Y<sub>z</sub>, X<sub>z</sub>, and M=, T=, f=, fd=. A green circle highlights the first two rows (229, 550), and a green arrow points from the top row to the bottom row. The bottom row also contains labels for Δy, Δx, Y<sub>z</sub>-Y<sub>p</sub>, X<sub>z</sub>-X<sub>p</sub>, Ty-My, and Tx-Mx.

T	$\beta$	$\nu$	d	$\Delta y$	$\Delta x$	Y	X	T
229		$v_p$						
550		$v_\beta$		$v_p$				
	$\beta_{550}$							
T1		$v_\beta$	$v_{550}^{T1}$	$D_{550-T1}$	$v_{\Delta y1}$	$v_{\Delta x1}$	$Y_p$	$X_p$
	$\beta_{T1}$				$\Delta y_{550-T1}$	$\Delta x_{550-T1}$		550
T2		$v_\beta$			$v_{\Delta y2}$	$v_{\Delta x2}$	$Y_{T1}$	$X_{T1}$
	$\beta_{T2}$				$\Delta y_{T1-T2}$	$\Delta x_{T1-T2}$		T1
T3		$v_\beta$			$v_{\Delta y3}$	$v_{\Delta x3}$		
	$\beta_{T3}$				$\Delta y_{T2-T3}$	$\Delta x_{T2-T3}$		T2
266		$v_\beta$			$v_{\Delta y4}$	$v_{\Delta x4}$		
	$\beta_{266}$				$\Delta y_{T3-266}$	$\Delta x_{T3-266}$		T3
930			$v_z$				$Y_z$	$X_z$
M=		$v_p + \Sigma \beta$		M=	$\Sigma \Delta y$	$\Sigma \Delta x$		
T=		$v_z + n180$		T=	$Y_z - Y_p$	$X_z - X_p$		
f=				f=	$Ty - My$	$Tx - Mx$		
v=			$T - M$	fd=				