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Geodetsko vjeće 2
Primer 17.

T_1 $y = 458656$
 $x = 112987$
 $\Delta y = 656m$

$656m \dots x \text{ mm}$
 $1000m \dots 39mm$
 $x = \frac{656 \cdot 39}{1000} = 25,6mm$

$\Delta x = 987m$

$987m \dots x \text{ mm}$
 $1000m \dots 39mm$
 $x = \frac{987 \cdot 39}{1000} = 38,5mm$

$\rho: 46^\circ 9' + \Delta \rho$

$\Delta \rho \dots 42mm$

$60'' \dots 72mm$

$\Delta \rho = \frac{60'' \cdot 42mm}{72mm} = 35''$

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 $46^\circ 9' 35''$

$\lambda: 14^\circ 27' + \Delta \lambda$

$\Delta \lambda \dots 45,6mm$

$60'' \dots 50mm$

$20mm + 25,6mm = 45,6mm$

$\Delta \lambda = \frac{60'' \cdot 45,6mm}{50mm} = 54,7''$

$14^\circ 27' 54,7''$

T_2

$y = 459289m$

$x = 110501m$

$\Delta y = 289m$

$\Delta x = 501m$

$289m \dots x$

$1000m \dots 39mm$

$x = 11,27mm$

$501m \dots x$

$1000m \dots 39mm$

$x = 19,54mm$

$\rho: 46^\circ 8' + \Delta \rho$

$\Delta \rho \dots 17,54mm$

$60'' \dots 72mm$

$\Delta \rho = 14,6''$

$46^\circ 8' 14,6''$

$\lambda: 14^\circ 28' + \Delta \lambda$

$\Delta \lambda \dots 20,27mm$

$60'' \dots 50mm$

$\Delta \lambda = 24,3''$

$14^\circ 28' 24,3''$

$20mm + 11,27mm = 31,27mm$

$$y = 453746$$

$$x = 111030$$

$$\Delta y = 748$$

$$846 \dots x$$

$$1000 \dots 39 \text{ mm}$$

$$x = 29.1 \text{ mm}$$

$$\Delta x = 30$$

$$10 \dots x$$

$$1000 \dots 39 \text{ mm}$$

$$x = 1.17 \text{ mm}$$

$$\rho: 46^\circ 8' + \Delta \rho$$

$$\Delta \rho \dots 39.17 \text{ m}$$

$$60'' \dots 72 \text{ mm}$$

$$\Delta \rho = 32.6''$$

$$39 \text{ mm} \dots 1.17 \text{ m}$$

$$39.17 \text{ m}$$

$$46^\circ 8' 32.6''$$

$$\lambda: 14^\circ 24' + \Delta \lambda$$

$$\Delta \lambda \dots 4 \text{ mm}$$

$$60'' \dots 50 \text{ mm}$$

$$\Delta \lambda = 4.8''$$

$$14^\circ 24' 4.8''$$

$$\rho: 46^\circ 9' 34.2''$$

$$\lambda: 14^\circ 24' 32.2''$$

$$\Delta \rho = 34.2''$$

$$34.2'' \dots x$$

$$x = 41.04 \text{ mm}$$

$$60'' \dots 72 \text{ mm}$$

$$\Delta \lambda = 32.2''$$

$$32.2'' \dots x$$

$$x = 26.83 \text{ mm}$$

$$60'' \dots 50 \text{ mm}$$

$$\Delta y = 13 \text{ mm}$$

$$\Delta x = 38 \text{ mm}$$

$$\Delta y \dots 13 \text{ mm}$$

$$1000 \text{ m} \dots 39 \text{ mm}$$

$$\Delta y = 333.33 \text{ m}$$

$$y = 454000 + \Delta y = 454333.3 \text{ m}$$

$$x = 112000 + \Delta x = 112948.72 \text{ m}$$

$$\Delta x \dots 38 \text{ mm}$$

$$1000 \text{ m} \dots 39 \text{ mm}$$

$$\Delta x = 948.72 \text{ m}$$

$$\rho: 46^\circ 9' 36.7''$$

$$\lambda: 14^\circ 22' 48''$$

$$\Delta \rho = 36.7''$$

$$36.7'' \dots x$$

$$x = 41.04 \text{ mm}$$

$$60'' \dots 72 \text{ mm}$$

$$\Delta \lambda = 48''$$

$$48'' \dots x$$

$$60'' \dots 50 \text{ mm}$$

$$x = 40 \text{ mm}$$

$$\Delta y = 3 \text{ mm}$$

$$\Delta x = 4 \text{ mm}$$

$$\Delta y \dots 3 \text{ mm}$$

$$1000 \text{ m} \dots 39 \text{ mm}$$

$$\Delta y = 77 \text{ m}$$

$$\Delta x \dots 4 \text{ mm}$$

$$1000 \text{ m} \dots 39 \text{ mm}$$

$$\Delta x = 102.6 \text{ m}$$

$$y = 452000 + \Delta y = 452087 \text{ m}$$

$$x = 113000 + \Delta x = 113102.6 \text{ m}$$

$$T_1 - T_2 \quad d_{12} = \sqrt{\Delta y^2 + \Delta x^2} = \sqrt{633^2 + (-2486)^2} = \sqrt{6580885} = 2565.32 \text{ m}$$

$$d_{12} = 2565.32 \text{ m}$$

$$T_3 - T_1 \quad d_{13} = \sqrt{\Delta y^2 + \Delta x^2} = \sqrt{(-4910)^2 + (-1957)^2} = \sqrt{27937940} = 5285.64 \text{ m}$$

$$d_{13} = 5285.64 \text{ m}$$

$$T_1 - T_4 \quad d_{14} = \sqrt{(-4322.8)^2 + (-38.3)^2} = 4322.87 \text{ m}$$

$$T_5 - T_1 \quad d_{15} = \sqrt{(-6579)^2 + 115.6^2} = 6580 \text{ m}, 02 \text{ m}$$

$$T_2 - T_3 \quad d_{23} = \sqrt{(-4554)^2 + 529^2} = 5568.19 \text{ m}$$

$$T_4 - T_2 \quad d_{24} = \sqrt{(-4955.7)^2 + 2447.7^2} = 5527.22 \text{ m}$$

$$T_2 - 5 \quad d_{25} = \sqrt{(-7212)^2 + 2601.6^2} = 7666.89 \text{ m}$$

$$T_4 - T_3 \quad d_{34} = \sqrt{587.3^2 + 1918.7^2} = 2006.57 \text{ m}$$

$$T_3 - T_5 \quad d_{35} = \sqrt{(-1669)^2 + 2072.6^2} = 2661.06 \text{ m}$$

$$T_5 - T_4 \quad d_{45} = \sqrt{(-2256.3)^2 + 153.9^2} = 2261.54 \text{ m}$$

$$V_1^2 = \arctan \frac{\Delta y}{\Delta x} = \arctan \frac{633}{(-2486)} + 180^\circ = \cancel{194^\circ 18' 7.5''} \quad \cancel{165.74} \quad 165^\circ 42' 52''$$

$$V_3^1 = \arctan \frac{-4910}{-1957} + 180^\circ = 248^\circ 16' 8.6''$$

$$V_4^1 = \arctan \frac{-4322.7}{-38.3} + 180^\circ = 269^\circ 29' 32''$$

$$V_5^1 = \arctan \frac{-6579}{115.6} + 360^\circ = 271^\circ 0' 23.9''$$

$$V_3^2 = \arctan \frac{-5533}{529} + 275^\circ 27' 5.6'' \quad 360^\circ = 275^\circ 27' 5.6''$$

$$V_4^2 = \arctan \frac{-4955.7}{2447.7} + 360^\circ = 296^\circ 18' 7.8''$$

$$V_5^2 = \arctan \frac{-7212}{2601.6} + 360^\circ = 289^\circ 50' 9.6''$$

$$V_4^3 = \arctan \frac{587.3}{1918.7} = 17^\circ 1' 8.3''$$

$$V_5^3 = \arctan \frac{-1669}{2072.6} + 360^\circ = 321^\circ 5' 23.7''$$

$$V_5^4 = \arctan \frac{-2256.3}{153.9} + 360^\circ = 283^\circ 51' 7.4''$$