

## Směrník

Určete směrník 5001,5002 a vzdálenost mezi těmito body.

Dáno: 5001 [11 234,56; 66 357,90]

5002 [11 504,71; 66 105,46]

Určit:  $\sigma_{5001,5002} = ?$

$s_{5001,5002} = ?$

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1.  $\Delta y_{5001,5002} = Y_{5002} - Y_{5001} = 11\,504,71 - 11\,234,56 = +270,15 \text{ m}$

$\Delta x_{5001,5002} = X_{5002} - X_{5001} = 66\,105,46 - 66\,357,90 = -252,44 \text{ m}$

2.  $\varphi = \arctg \left| \frac{\Delta y_{5001,5002}}{\Delta x_{5001,5002}} \right| = \arctg \frac{270,15}{252,44} = 52,1566^\circ$

3.  $\Delta y_{5001,5002}$  je kladné;  $\Delta x_{5001,5002}$  je záporné  $\Rightarrow$  2.kvadrant  $\Rightarrow$

4.  $\sigma_{5001,5002} = 200 - \varphi = \mathbf{147,8434^\circ}$

$$s_{5001,5002} = \sqrt{\Delta y_{5001,5002}^2 + \Delta x_{5001,5002}^2} = \sqrt{270,15^2 + 252,44^2} = \mathbf{369,74 \text{ m}}$$