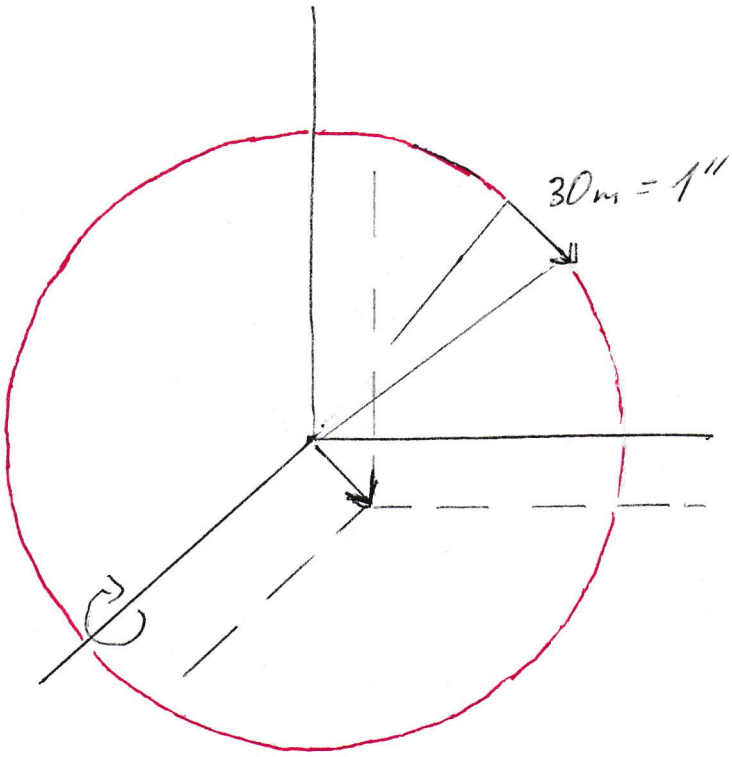
Problem Bursa - Wolf Modell:



$$dx = R\, d\vartheta$$

$$30m = 6371Km \cdot 1''$$

$$\begin{pmatrix} x' \\ y' \\ z' \end{pmatrix} = \begin{pmatrix} dx \\ dy \\ dz \end{pmatrix} + m\, R \begin{pmatrix} x \\ y \\ z \end{pmatrix}$$

$m = 1$

$$\begin{pmatrix} x' \\ y' \\ z' \end{pmatrix} - \begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} dx \\ dy \\ dz \end{pmatrix} \overset{1}{=} R \cdot \begin{pmatrix} x \\ y \\ z \end{pmatrix}$$