

$\beta \dots \sphericalangle APQ$

$$\vec{PQ} = \begin{pmatrix} 11 \\ 6 \\ 1 \end{pmatrix}$$

$$\vec{PA} = \begin{pmatrix} 2 \\ 2 \\ 0 \end{pmatrix} \parallel \begin{pmatrix} 1 \\ 1 \\ 0 \end{pmatrix}$$

$$\cos \beta = \frac{\begin{pmatrix} 11 \\ 6 \\ 1 \end{pmatrix} \cdot \begin{pmatrix} 1 \\ 1 \\ 0 \end{pmatrix}}{\left| \begin{pmatrix} 11 \\ 6 \\ 1 \end{pmatrix} \right| \cdot \left| \begin{pmatrix} 1 \\ 1 \\ 0 \end{pmatrix} \right|} = \frac{17}{\sqrt{158} \cdot \sqrt{2}}$$

$$\beta = \cos^{-1} \frac{17}{\sqrt{158} \cdot \sqrt{2}} = 16,99\dots \approx 17$$

$$\Rightarrow \underline{\underline{\beta \approx 17^\circ}}$$