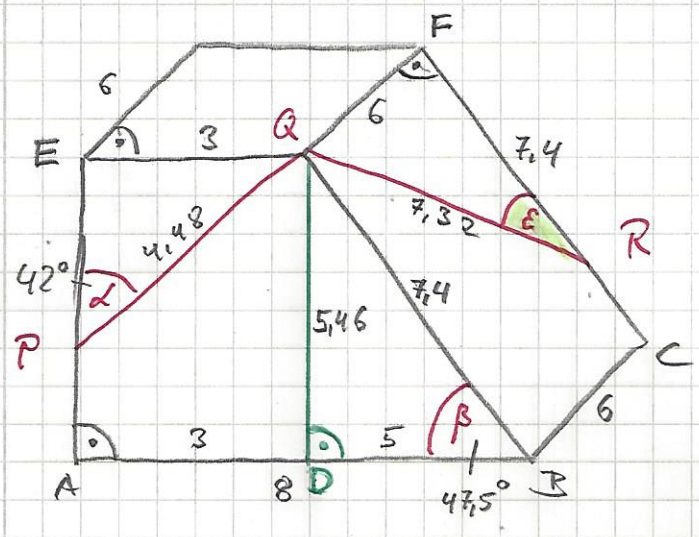
S. 204 Nr. 9

$PQR = 11{,}8\,cm$



ges: $\sphericalangle \varepsilon$

$\overline{DQ}$: $\sin 47{,}5° = \frac{\overline{DQ}}{7{,}4}$ $\Rightarrow \overline{DQ} = 5{,}46\,cm$

$\overline{DB}$: $\sqrt{7{,}4^2 - 5{,}46^2}$ $\Rightarrow \overline{DB} = 5{,}0\,cm$

$8 - 5 \Rightarrow \overline{AD}$ $\Rightarrow \overline{AD} = 3{,}0\,cm$

$\overline{AD} = \overline{EQ}$

$\overline{PQ}$: $\sin 42° = \frac{3}{\overline{PQ}}$ $\Rightarrow \overline{PQ} = 4{,}48\,cm$

$\overline{QR}$: $11{,}8 - 4{,}48$ $\Rightarrow \overline{QR} = 7{,}32\,cm$

ε: $\sin \varepsilon = \frac{6}{7{,}32}$ $\Rightarrow \boxed{\varepsilon = 55{,}1°}$