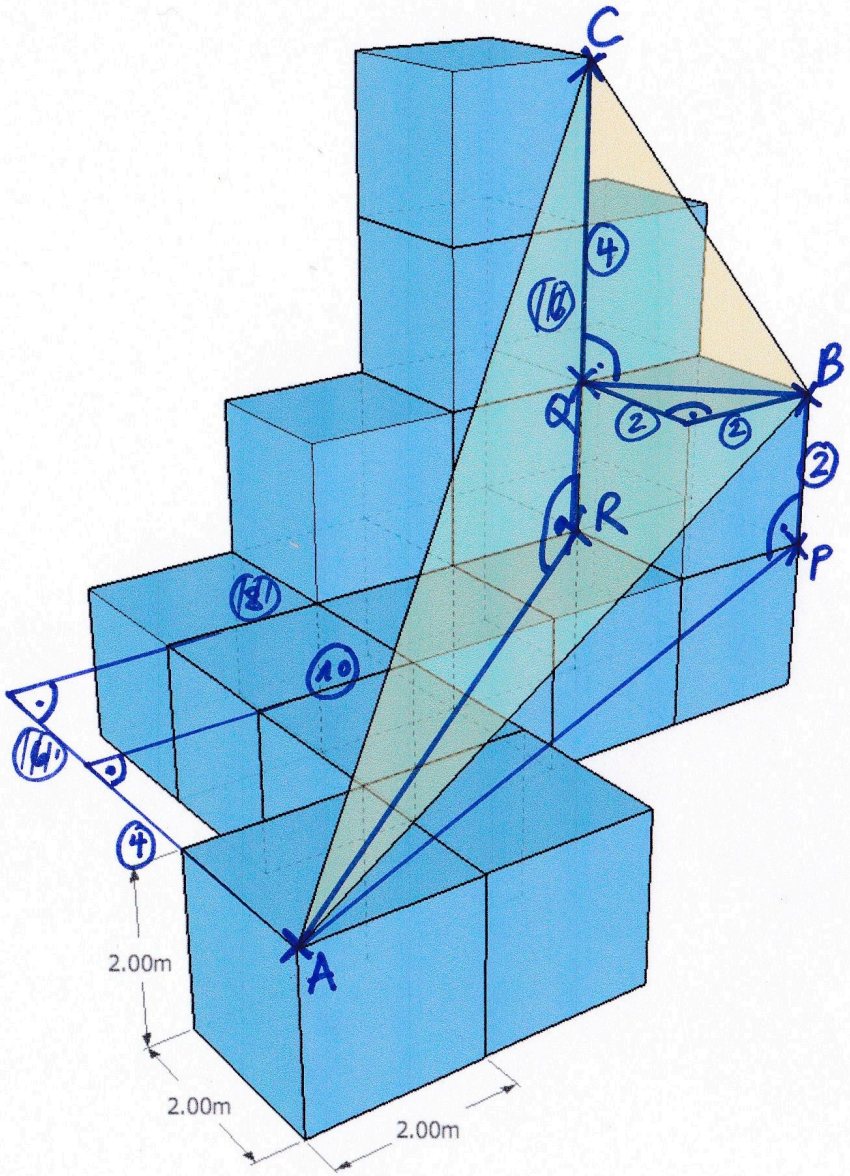
Aufgabe Gittermodell

Berechne den Umfang des gelben Dreiecks.



$\overline{AP} = \sqrt{10^2 + 4^2} = \sqrt{100 + 16}$

$= \underline{\sqrt{116}\ m}$

$\overline{AB} = \sqrt{\sqrt{116}^2 + 2^2} = \sqrt{116 + 4}$

$= \underline{\sqrt{120}\ m}$

$\overline{BQ} = \sqrt{2^2 + 2^2} = \sqrt{4 + 4}$

$= \underline{\sqrt{8}\ m}$

$\overline{BC} = \sqrt{\sqrt{8}^2 + 4^2} = \sqrt{8 + 16}$

$= \underline{\sqrt{24}\ m}$

$\overline{AR} = \sqrt{8^2 + 6^2} = \sqrt{64 + 36}$

$= \sqrt{100} = \underline{10m}$

$\overline{AC} = \sqrt{10^2 + 6^2} = \sqrt{100 + 36}$

$= \underline{\sqrt{136}\ m}$

$\Rightarrow u = \underline{\underline{(\sqrt{120} + \sqrt{24} + \sqrt{136})\ m}}$