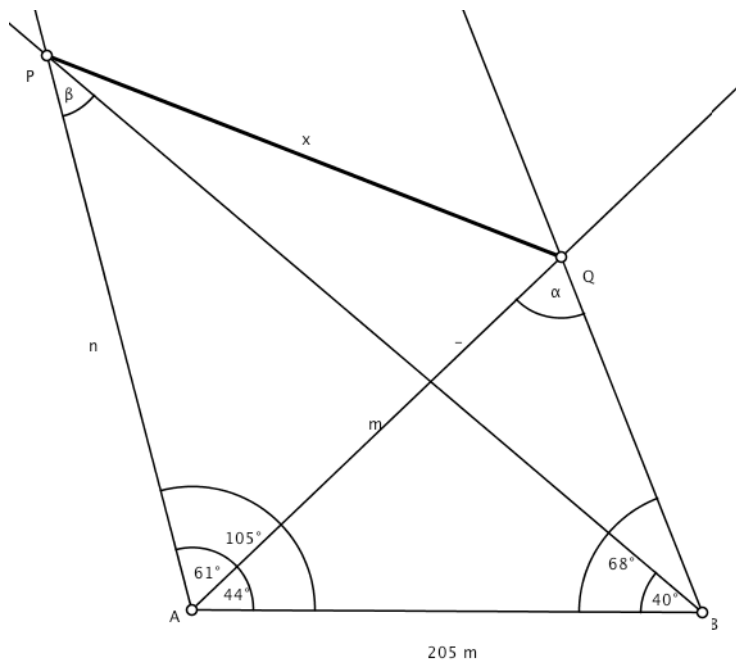


LÖSUNG ZU 797b:



$$205 \text{ m} \stackrel{\Delta}{=} 20\,500 \text{ cm} : 2\,000 = 10,25 \text{ cm}$$

$\alpha = 180^\circ - (44^\circ + 68^\circ) = 68^\circ$, d.h. das Dreieck ABQ ist gleichschenkelig und $m = 205 \text{ m}$.

$$\beta = 180^\circ - (40^\circ + 105^\circ) = 35^\circ$$

$$\frac{n}{\sin(40^\circ)} = \frac{205}{\sin(\beta)} \quad \rightarrow \quad n = \frac{205}{\sin(35^\circ)} \cdot \sin(40^\circ) \approx 229,74 \text{ m}$$

$$x = \sqrt{m^2 + n^2 - 2mn \cdot \cos(61^\circ)} \quad \rightarrow \quad x = \overline{PQ} \approx 221,67 \text{ m}$$

