



















B 2.6

$$\sphericalangle NMD = 41,63^\circ$$

Dreieck  $MNS_3$ :

$$\sphericalangle S_3NM = 180^\circ - 110^\circ - 41,63^\circ = 28,37^\circ$$

Sinus-Satz im gleichen Dreieck:

$$\frac{\overline{MS_3}}{\sin \sphericalangle S_3NM} = \frac{\overline{MN}}{\sin \sphericalangle MS_3N}$$

$$\Leftrightarrow \overline{MS_3} = \frac{\overline{MN} \cdot \sin \sphericalangle S_3NM}{\sin \sphericalangle MS_3N} = \frac{9 \text{ cm} \cdot \sin 28,37^\circ}{\sin 110^\circ} = 4,55 \text{ cm}$$

$$x = 12,04 \text{ cm} - \overline{MS_3} = 12,04 \text{ cm} - 4,55 \text{ cm} = 7,49 \text{ cm}$$