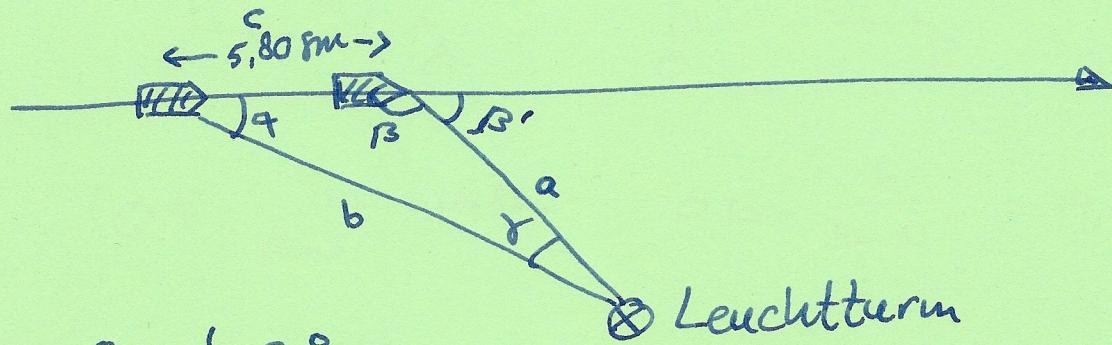


16.64

$$18m = 1,852 \text{ km}$$

$$5,808m = 10.74 \text{ km}.$$



$$\alpha = 35^\circ \quad \beta' = 61^\circ$$

$$\beta = 180^\circ - 61^\circ = 119^\circ$$

$$\gamma = \beta' - \alpha = 61 - 35 = 26^\circ$$

1) a wird gesucht  $\frac{a}{\sin \alpha} = \frac{c}{\sin \gamma} \Rightarrow a = \frac{\sin \alpha}{\sin \gamma} \cdot c$

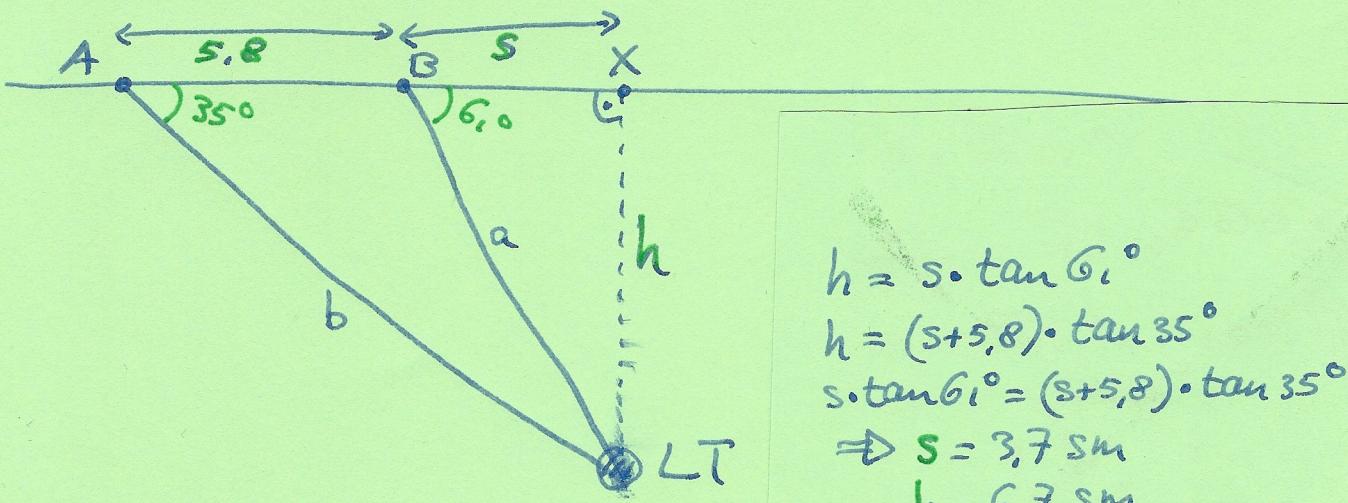
daher  $a = \frac{\sin(35^\circ)}{\sin(26^\circ)} \cdot 5,8 = 7,6 \text{ sm}$

2) b-a ist gefragt.

$$b = \frac{\sin(\beta)}{\sin(\gamma)} \cdot c = \frac{\sin(119^\circ)}{\sin(26^\circ)} 5,8 = 11,6 \text{ sm}$$

$$b-a = 4 \text{ sm}$$

Andere Methode



$$h = s \cdot \tan 61^\circ$$

$$h = (s+5,8) \cdot \tan 35^\circ$$

$$s \cdot \tan 61^\circ = (s+5,8) \cdot \tan 35^\circ$$

$$\Rightarrow s = 3,7 \text{ sm}$$

$$h = 6,7 \text{ sm}$$

$$a = \frac{s}{\cos 61^\circ} = 7,6 \text{ sm}$$