

(1) $\alpha = 3.8^\circ$

(2) $a = 5.49\text{ m}$

(3) $\text{Winkel} = 130.24^\circ$

(4) $\text{Schatten} = 27.59\text{ m}$

(5) a) $x = AB \cdot [\tan(\beta) - \tan(\alpha)]$
b) $x = 2.95\text{ m}$