

LÖSUNG ZU 56:

1. Art:

d_1 ...die Flächendiagonale der Grundfläche

$$\text{Es gilt: } \cos(\alpha) = \frac{d_1}{d}$$

$$d_1^2 = a^2 + b^2 \Rightarrow d_1 = \sqrt{a^2 + b^2} \Rightarrow \cos(\alpha) = \frac{\sqrt{a^2 + b^2}}{d} \Rightarrow \alpha = \cos^{-1}\left(\frac{\sqrt{a^2 + b^2}}{d}\right)$$

2. Art:

$$\sin(\alpha) = \frac{c}{d} \Rightarrow \alpha = \sin^{-1}\left(\frac{c}{d}\right)$$

