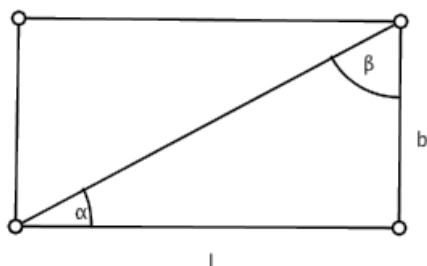


Lösung Beispiel 697.)



a)

$$\tan(\alpha) = \frac{b}{l} = \frac{4,2}{8,5} \quad \rightarrow \quad \alpha = \tan^{-1}\left(\frac{4,2}{8,5}\right) \approx 26,29^\circ \quad \beta = 90^\circ - 26,29^\circ \approx 63,71^\circ$$

b)

$$\tan(\alpha) = \frac{b}{l} = \frac{11,7}{17,2} \quad \rightarrow \quad \alpha = \tan^{-1}\left(\frac{11,7}{17,2}\right) \approx 34,22^\circ \quad \beta = 90^\circ - 34,22^\circ \approx 55,78^\circ$$

c)

$$\tan(\alpha) = \frac{b}{l} = \frac{8,8}{11} \quad \rightarrow \quad \alpha = \tan^{-1}\left(\frac{8,8}{11}\right) \approx 38,66^\circ \quad \beta = 90^\circ - 38,66^\circ \approx 51,34^\circ$$

d)

$$\tan(\alpha) = \frac{b}{l} = \frac{17}{21} \quad \rightarrow \quad \alpha = \tan^{-1}\left(\frac{17}{21}\right) \approx 38,99^\circ \quad \beta = 90^\circ - 38,99^\circ \approx 51,01^\circ$$

