

**Aufgabe 1**

$$\tan \alpha = \frac{a}{b} \Rightarrow \alpha = \arctan \frac{a}{b}$$

$$\alpha = \arctan \frac{7.6}{5.8} = 52.65^\circ$$

**Aufgabe 2**

$$\sin \alpha = \frac{a}{c} \Rightarrow \alpha = \arcsin \frac{a}{c}$$

$$\alpha = \arcsin \frac{5}{9} = 33.75^\circ$$

**Aufgabe 3**

$$\cos \alpha = \frac{b}{c} \Rightarrow \alpha = \arccos \frac{b}{c}$$

$$\alpha = \arccos \frac{2.7}{3.1} = 29.43^\circ$$

**Aufgabe 4**

$$\tan \beta = \frac{b}{a} \Rightarrow \beta = \arctan \frac{b}{a}$$

$$\beta = \arctan \frac{13.6}{1.2} = 84.96^\circ$$

**Aufgabe 5**

$$\cos \beta = \frac{a}{c} \Rightarrow \beta = \arccos \frac{a}{c}$$

$$\beta = \arccos \frac{0.4}{0.8} = 60.0^\circ$$

**Aufgabe 6**

$$\sin \beta = \frac{b}{c} \Rightarrow \beta = \arcsin \frac{b}{c}$$

$$\beta = \arcsin \frac{6.3}{6.5} = 75.75^\circ$$