

## Aufgabe 4

$$\alpha = 70^\circ$$

$$\beta = 35^\circ$$

$$\gamma = 75^\circ$$

$$\delta = 150^\circ$$

$$\varepsilon = 330^\circ$$

## Aufgabe 5

a)

1)

$$\alpha = 62^\circ$$

$$\beta = 75^\circ$$

$$\gamma = 90^\circ$$

$$\delta = 133^\circ$$

2)

$$\alpha = 90^\circ$$

$$\beta = 90^\circ$$

$$\gamma = 90^\circ$$

$$\delta = 90^\circ$$

3)

$$\alpha = 56^\circ$$

$$\beta = 41^\circ$$

$$\gamma = 207^\circ$$

$$\delta = 56^\circ$$

4)

$$\alpha = 50^\circ$$

$$\beta = 90^\circ$$

$$\gamma = 60^\circ$$

$$\delta = 160^\circ$$

5)

$$\alpha = 90^\circ$$

$$\beta = 107^\circ$$

$$\gamma = 56^\circ$$

$$\delta = 107^\circ$$

6)

$$\alpha = 64^\circ$$

$$\beta = 116^\circ$$

$$\gamma = 64^\circ$$

$$\delta = 116^\circ$$

**b)** Die Summe der Winkel in einem Viereck ergibt immer  $360^\circ$ :

$$\alpha + \beta + \gamma + \delta = 360^\circ$$