

3.49

1.5

$$\sin 2\alpha + \sin 2\beta = 2[\sin \gamma + \cos(\alpha - \beta) - 1]$$

$$2\sin(\alpha + \beta)\cos(\alpha - \beta) = 2[\sin(\alpha + \beta) + \cos(\alpha - \beta) - 1]$$

$$2\sin(\alpha + \beta)\cos(\alpha - \beta) - 2\sin(\alpha + \beta) = 2\cos(\alpha - \beta) - 2$$

$$2\sin(\alpha + \beta)[\cos(\alpha - \beta) - 1] = 2[\cos(\alpha - \beta) - 1]$$

liniar

liniar

$$\cos(\alpha - \beta) = 1$$

$$\alpha - \beta = 0$$

$$\alpha = \beta$$

gleich

$$2\sin(\alpha + \beta) = 2$$

$$\sin(\alpha + \beta) = 1$$

$$\alpha + \beta = 90^\circ$$

Winkel 90 Grad