

Berechnung Schnittpunkte:

$$x^2 + y^2 = a^2 (1)$$

$$(s-x)^2 + y^2 = b^2 (2)$$

$$x^2 = a^2 - y^2 \tag{3}$$

$$(s-y)^2 + (a^2 - y^2) = b^2 (4)$$

$$s^2 + y^2 - 2ys + a^2 - y^2 - b^2 = 0 (5)$$

$$x^{2} + y^{2} = a^{2}$$

$$(s - x)^{2} + y^{2} = b^{2}$$

$$x^{2} = a^{2} - y^{2}$$

$$(s - y)^{2} + (a^{2} - y^{2}) = b^{2}$$

$$(s^{2} + y^{2} - 2ys + a^{2} - y^{2} - b^{2} = 0$$

$$y = \frac{a^{2} + s^{2} - b^{2}}{2s}$$

$$x_{1,2} = \pm \sqrt{a^{2} - y}$$

$$(1)$$

$$(2)$$

$$(3)$$

$$(4)$$

$$(5)$$

$$(6)$$

$$x_{1,2} = \pm \sqrt{a^2 - y} \tag{7}$$

Berechnung winkel:

$$s = d \cdot \sin \frac{\alpha}{2} \tag{8}$$

$$s = d \cdot \sin \frac{\alpha}{2}$$

$$\alpha = 2 \arcsin \left(\frac{s}{d}\right)$$
(8)