

$$r_1 := 2 \quad r_2 := 1.5 \quad \text{aplusc} := 2.743$$

$$\alpha := 2 \cdot \text{asin} \left[ \frac{1}{2 \cdot r_1 + 2 \cdot r_2} \cdot [2 \cdot (r_1 + r_2) \cdot \text{aplusc}]^{0.5} \right]$$

$$\alpha = 77.509 \text{ deg}$$