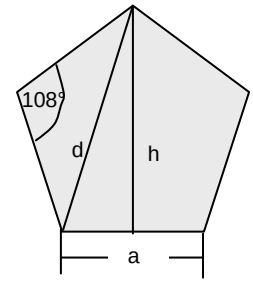
Flächenberechnungen: Regelmässiges Fünfeck und Sechseck

Regelmäßiges Fünfeck

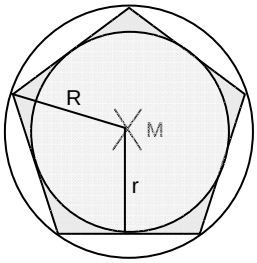


$$A = \frac{\sqrt{25+10\sqrt{5}}}{4} \cdot a^2$$

$$d = \frac{1+\sqrt{5}}{2} \cdot a$$

$$h = \frac{\sqrt{5+2\sqrt{5}}}{2} \cdot a$$

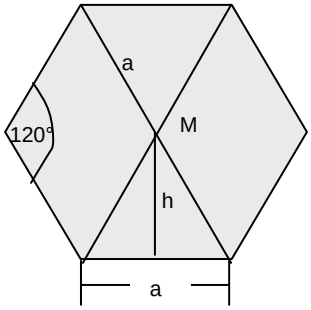
$$U = 5 \cdot a$$



$$r = \frac{\sqrt{25+10\sqrt{5}}}{10} \cdot a$$

$$R = \frac{\sqrt{50+10\sqrt{5}}}{10} \cdot a$$

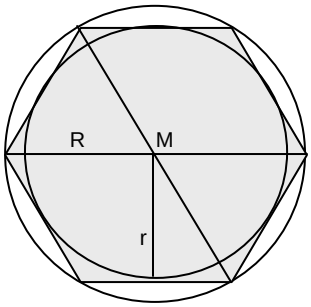
Regelmäßiges Sechseck



$$h = \frac{a}{2} \cdot \sqrt{3}$$

$$A = \frac{3 \cdot \sqrt{3}}{2} \cdot a^2$$

$$U = 6 \cdot a$$



$$R = a$$

$$r = h$$