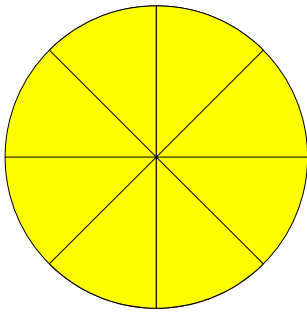
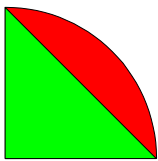
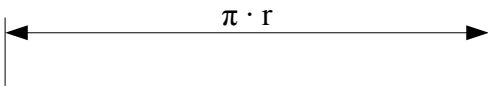
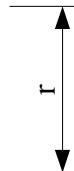
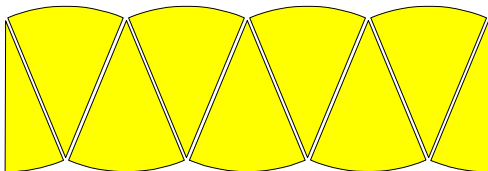


Kreisumfang und Kreisfläche



$$A = \pi \cdot r^2$$



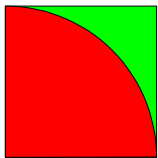
$$A_1 < A_2 < A_3$$

$$\frac{1}{2} r^2 < \frac{1}{4} \pi r^2 < r^2$$

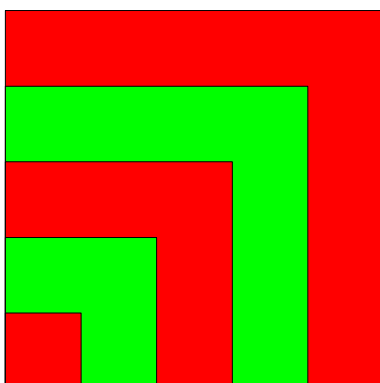
$$2 \cdot \frac{1}{4} r^2 < \pi \cdot \frac{1}{4} r^2 < 4 \cdot \frac{1}{4} r^2$$

$$2 < \pi < 4$$

$$\pi \approx 3$$



Quadratzahlen als Summe der ungeraden Zahlen



$$1 = 1$$

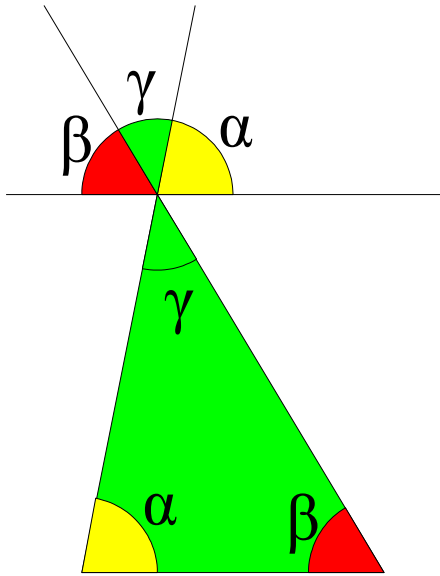
$$1 + 3 = 4$$

$$1 + 3 + 5 = 9$$

$$1 + 3 + 5 + 7 = 16$$

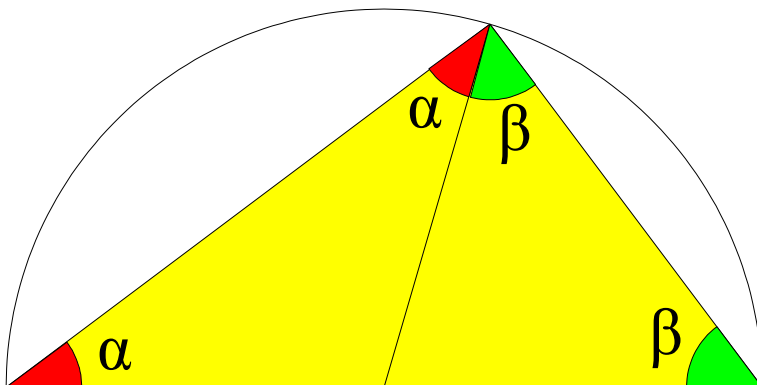
$$1 + 3 + 5 + 7 + 9 = 25$$

Winkelsumme im Dreieck



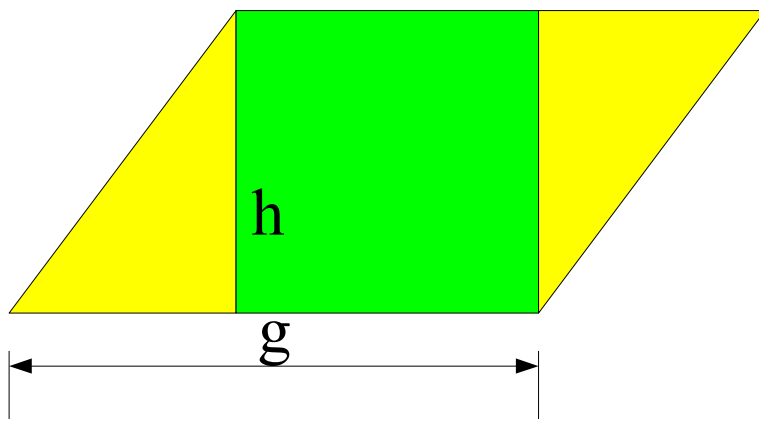
$$\alpha + \beta + \gamma = 180^\circ$$

Thales-Satz



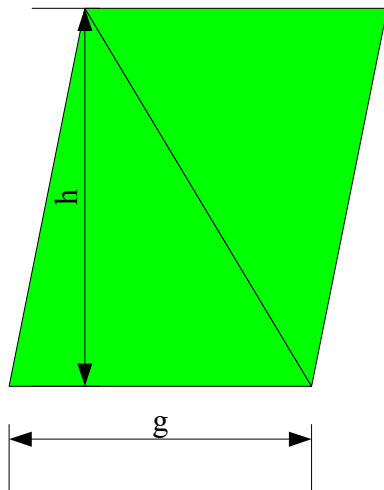
$$\alpha + \beta + (\alpha + \beta) = 180^\circ$$
$$\alpha + \beta = 90^\circ$$

Flächeninhalt beim Parallelogramm



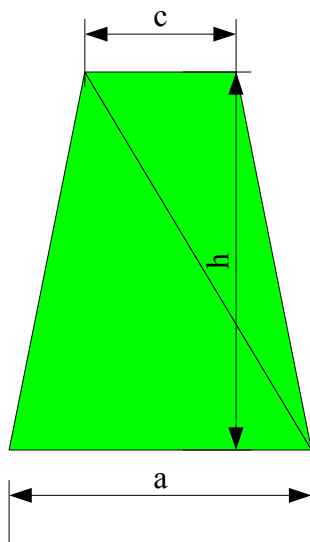
$$A = g \cdot h$$

Flächeninhalt beim Dreieck



$$A_1 = \frac{1}{2} g \cdot h$$

Flächeninhalt beim Trapez

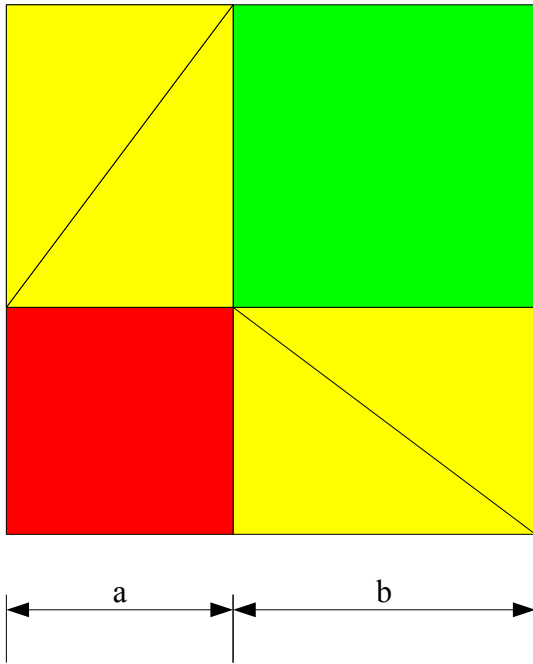


$$A_1 = \frac{1}{2} \cdot a \cdot h$$

$$A_2 = \frac{1}{2} \cdot c \cdot h$$

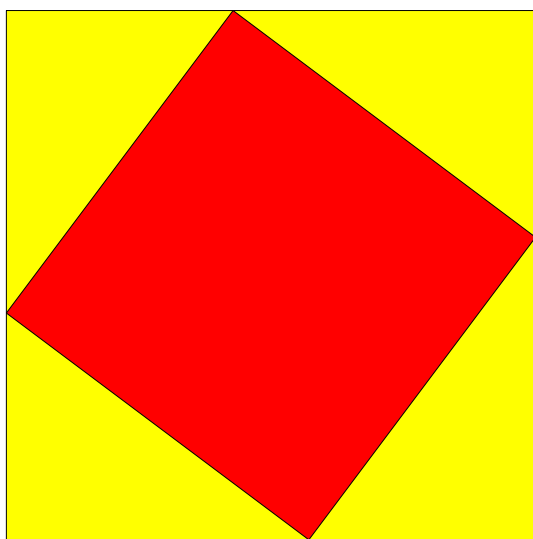
$$A = \frac{1}{2} \cdot (a+c) \cdot h$$

1. Binomische Formel



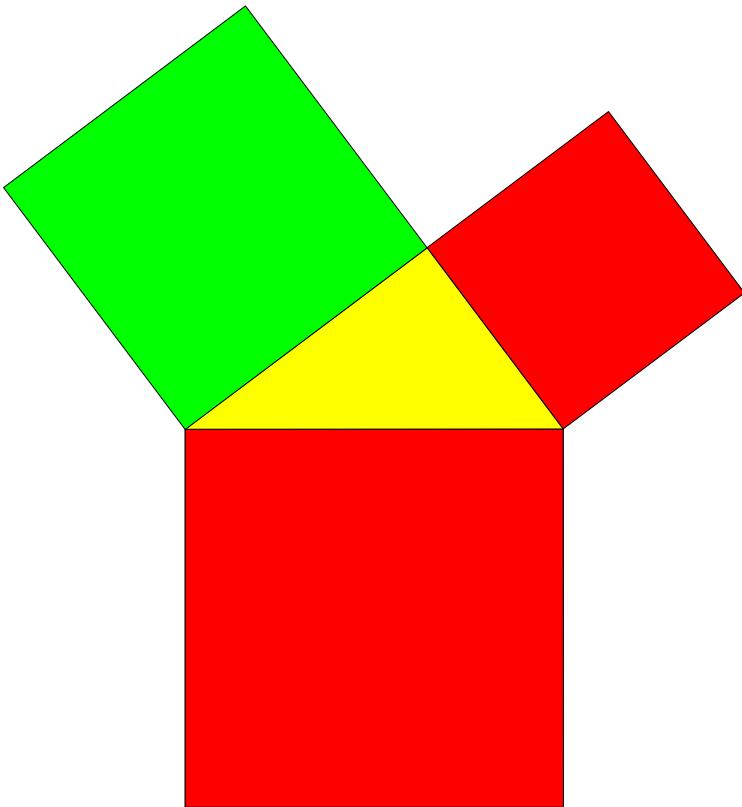
$$(a+b)^2 = a^2 + b^2 + 2ab$$

Pythagoras-Satz



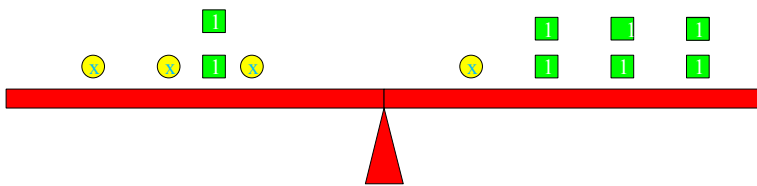
$$(a+b)^2 = c^2 + 4 \cdot \frac{1}{2}ab$$

Pythagoras-Figur

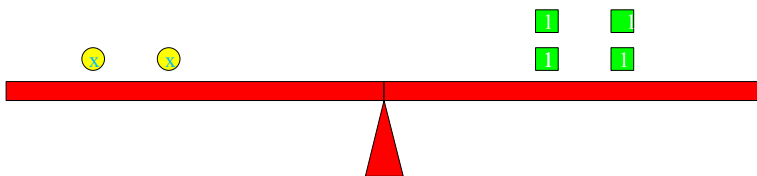


$$a^2 + b^2 = c^2$$

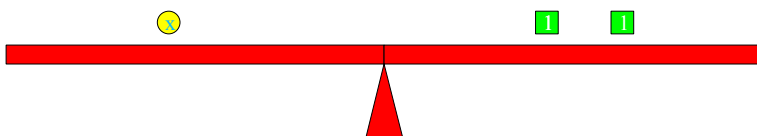
Äquivalenzumformungen bei linearen Gleichungen



$$3x + 2 = x + 6$$



$$2x = 4$$



$$x = 2$$