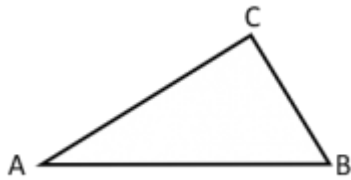


Pythagoras in regelmässigen Figuren

rechtwinkliges Dreieck

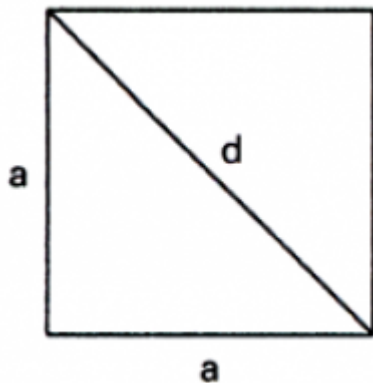


$$c = \sqrt{a^2 + b^2}$$

$$a = \sqrt{c^2 - b^2}$$

$$b = \sqrt{c^2 - a^2}$$

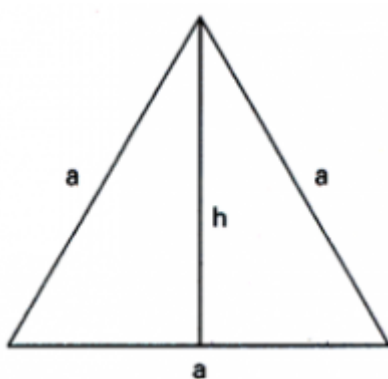
Quadrat



$$d = \sqrt{2a^2} = \sqrt{2} \cdot a$$

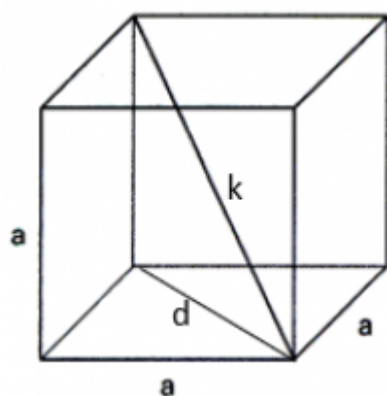
$$a = \sqrt{d^2 : 2} = d : \sqrt{2}$$

gleichseitiges Dreieck



$$h = \sqrt{\frac{3}{4}a^2} = \frac{\sqrt{3}}{2}a$$

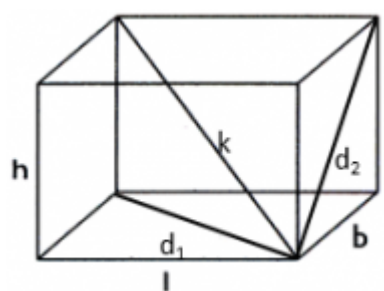
Würfel



$$d = \sqrt{2a^2} = \sqrt{2} \cdot a$$

$$k = \sqrt{a^2 + d^2} = \sqrt{3a^2} = \sqrt{3}a$$

Quader



$$d_1 = \sqrt{l^2 + b^2}$$

$$d_2 = \sqrt{b^2 + h^2}$$

$$k = \sqrt{l^2 + b^2 + h^2}$$

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