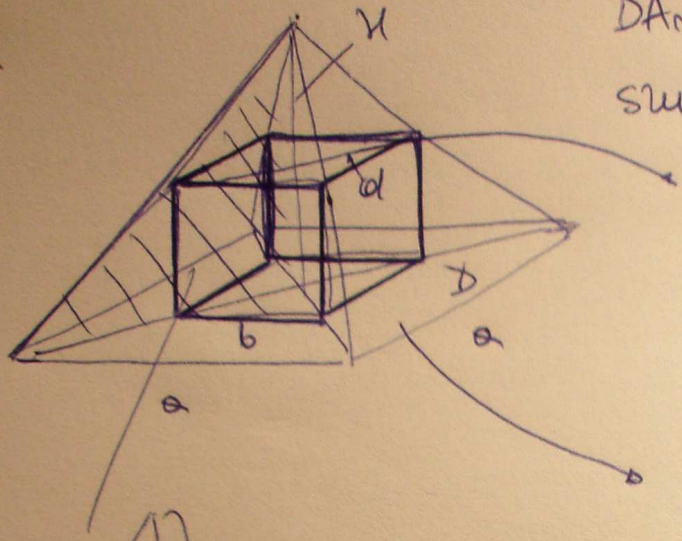
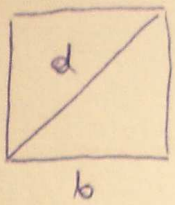
ZAD



DANE: a, H

SZUKANE: b

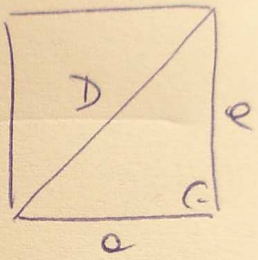


∾ TW. PITAGORASA

$d^2 = b^2 + b^2$

$d^2 = 2b^2 \quad |\sqrt{\ }$

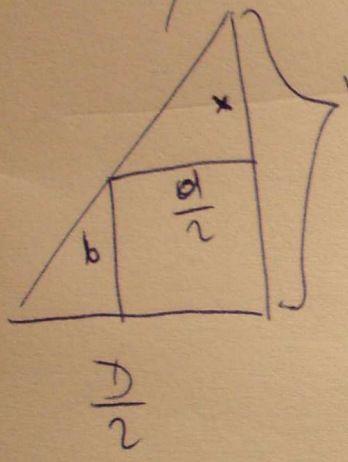
$d = \sqrt{2b^2} = b\sqrt{2}$



$D^2 = a^2 + a^2$

$D^2 = 2a^2 \quad |\sqrt{\ }$

$D = \sqrt{2a^2} = a\sqrt{2}$



$x = H - b$

∾ TW. TALESA

$$\frac{x}{H} = \frac{\frac{d}{2}}{\frac{D}{2}}$$

$$\frac{H-b}{H} = \frac{d}{x} \cdot \frac{x}{D}$$

$$\frac{H-b}{H} = \frac{d}{D}$$

$$\frac{H-b}{H} = \frac{b\sqrt{2}}{a\sqrt{2}}$$

$$Hb = a(H-b)$$

$$Hb = Ha - ab$$

$$Hb + ab = Ha$$

$$b(H+a) = H-a \quad :|(H+a)$$

$$b = \frac{H-a}{H+a}$$

$$\boxed{b = \frac{H-a}{H+a}}$$