

$$\frac{XYCD}{ABCD} = p$$

$$AB = a, AD = c$$

$$CD = b$$

$$XY = d$$

$$XD = z$$

$ABCD$ trapéz magassága m
 $XYCD$ trapéz magassága m' .

$$\frac{\frac{b+d}{2} \cdot m'}{\frac{b+a}{2} \cdot m} = p$$

$$m' : m = z : c$$

$$\frac{b+d}{b+a} \cdot \frac{z}{c} = p$$

$$d - b : a - b = z : c$$

$$d - b = \frac{z}{c}(a - b)$$

$$d = \frac{z(a - b) + bc}{c}$$

$$\frac{\frac{2bc + z(a - b)}{c}}{a + b} \cdot \frac{z}{c} = p$$

$$z(2bc + z(a - b)) = pc^2(a + b)$$

$$z^2(a - b) + z2bc - pc^2(a + b) = 0$$

$$z = \frac{-bc \pm c\sqrt{b^2 + (a^2 - b^2)p}}{a - b}$$

(Schöner Odilio, Losoncz).

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