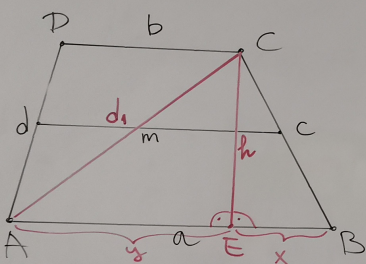


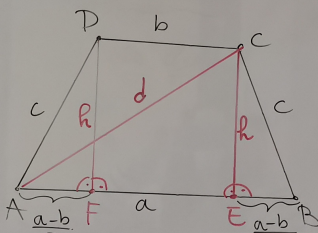
18.11.20. Примена Питагорине теореме на трапез

ТРАПЕЗ:



a, b - основнице
 c, d - краци
 m - средња линија
 $m = \frac{a+b}{2}$
 $d_1^2 = h^2 + y^2$
 $c^2 = h^2 + x^2$

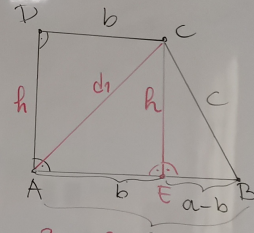
ЈЕДНАКОКРАКИ ТРАПЕЗ:



$FE = CD = b$
 $AF = EB$
 $AF + EB = a - b$
 $AF = EB = \frac{a-b}{2}$
 $AE = m = FB$
 $d^2 = h^2 + m^2$
 $c^2 = h^2 + \left(\frac{a-b}{2}\right)^2$

$$\boxed{AE = AF + FE = \frac{a-b}{2} + b = \frac{a-b}{2} + \frac{2b}{2} = \frac{a-b+2b}{2} = \frac{a+b}{2} = m}$$

ПРАВОУГЛИ ТРАПЕЗ:



$d_1^2 = h^2 + b^2$
 $c^2 = h^2 + (a-b)^2$

$O = a+b+c+d$
 $P = m \cdot h$
 Зонама:
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