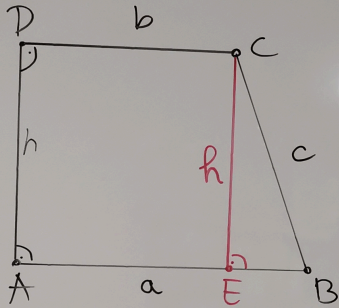


20.11.20. Примена Питолијориче теореме на трапез

352.

а)



$$a = 19 \text{ cm}$$

$$b = 7 \text{ cm}$$

$$c = 13 \text{ cm}$$

$$O = ? \quad P = ?$$

$\triangle EBC$:

$$EB = a - b$$

$$EB = 19 - 7$$

$$EB = 12 \text{ cm}$$

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

$$h^2 = 13^2 - 12^2$$

$$h^2 = 169 - 144$$

$$h^2 = 25$$

$$h = 5 \text{ cm}$$

$$AD = 5 \text{ cm}$$

$$O = a + b + c + AD$$

$$O = 19 + 7 + 13 + 5$$

$$O = 26 + 18$$

$$O = 44 \text{ cm}$$

$$P = m \cdot h$$

$$m = \frac{a+b}{2}$$

$$m = \frac{19+7}{2}$$

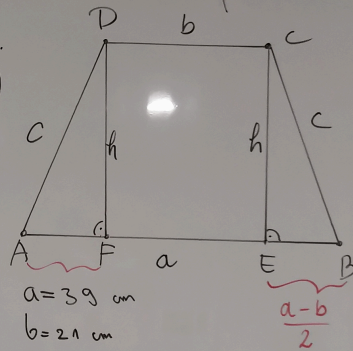
$$m = 13 \text{ cm}$$

$$P = 13 \cdot 5$$

$$P = 65 \text{ cm}^2$$

357.

а)



$$a = 39 \text{ cm}$$

$$b = 21 \text{ cm}$$

$$c = 41 \text{ cm}$$

$$P = ?$$

$$EB = \frac{a-b}{2}$$

$$EB = \frac{39-21}{2}$$

$$EB = \frac{18}{2}$$

$$EB = 9 \text{ cm}$$

$$h^2 = c^2 - EB^2$$

$$h^2 = 41^2 - 9^2$$

$$h^2 = 1681 - 81$$

$$h^2 = 1600$$

$$h = \sqrt{1600}$$

$$h = 40 \text{ cm}$$

$$P = m \cdot h$$

$$m = \frac{a+b}{2}$$

$$m = \frac{39+21}{2}$$

$$m = \frac{60}{2}$$

$$m = 30 \text{ cm}$$

$$P = m \cdot h$$

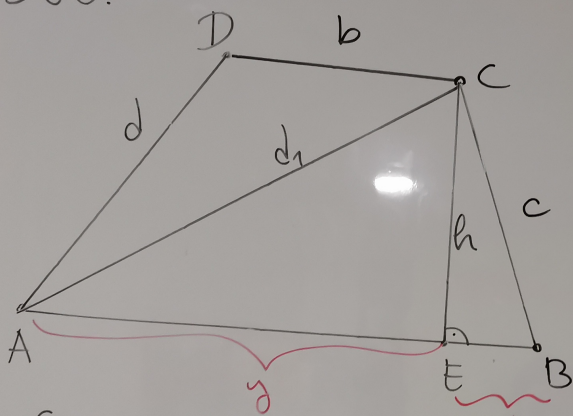
$$P = 30 \cdot 40$$

$$P = 1200 \text{ cm}^2$$

Следеће недеље биће вам потребни троугао и шестар.

20.11.2019. Стримерта Питагоровите теореме на израде.

360.



$c = 17 \text{ cm}$
 $b = 16 \text{ cm}$
 $d_1 = 25 \text{ cm}$
 $h = 15 \text{ cm}$

$P = ?$

$a = x + y$

$\triangle EBC:$

$EB^2 = c^2 - h^2$
 $EB^2 = 17^2 - 15^2$
 $EB^2 = 289 - 225$
 $EB^2 = 64$
 $EB = \sqrt{64}$
 $EB = 8 \text{ cm}$

$\triangle AEC:$

$y^2 = d_1^2 - h^2$
 $y^2 = 25^2 - 15^2$
 $y^2 = 625 - 225$
 $y = \sqrt{400}$
 $y = 20 \text{ cm}$

$a = y + x$

$a = 20 \text{ cm} + 8 \text{ cm}$

$a = 28 \text{ cm}$

$m = \frac{a \cdot b}{2}$

$m = \frac{28 \text{ cm} \cdot 16 \text{ cm}}{2}$

$m = 22 \text{ cm}$

$P = m \cdot h$

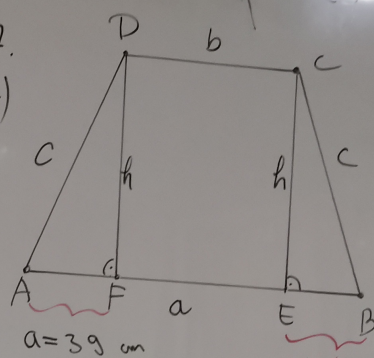
$P = 22 \text{ cm} \cdot 15 \text{ cm}$

$P = 330 \text{ cm}^2$

Заматка:
356, 357.8

357.

a)



$a = 39 \text{ cm}$

$b = 21 \text{ cm}$

$c = 41 \text{ cm}$

$P = ?$

$EB = \frac{a - b}{2}$

$EB = \frac{39 - 21}{2}$

$EB = 9 \text{ cm}$

$h^2 = c^2 - EB^2$

$h^2 = 41^2 - 9^2$

$h^2 = 1681 - 81$

$h^2 = 1600$

$h = \sqrt{1600}$

$h = 40 \text{ cm}$