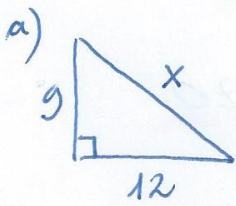


2. URA - RAČUNANJE V PRAVOKOTNEM TRIKOTNIKU - REŠITVE

Ž2 str. 146/9



$$x^2 = 9^2 + 12^2$$

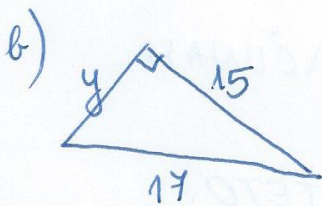
$$x^2 = 81 + 144$$

$$x^2 = 225$$

$$x = \sqrt{225}$$

$$x = 15$$

RAČUNAM
HIPOTENUZO!



$$y^2 = 17^2 - 15^2$$

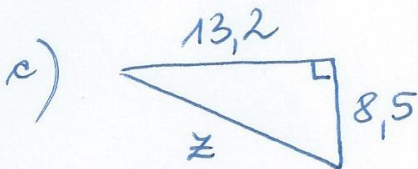
$$y^2 = 289 - 225$$

$$y^2 = 64$$

$$y = \sqrt{64}$$

$$y = 8$$

RAČUNAM
KATETO.



$$z^2 = 13,2^2 + 8,5^2$$

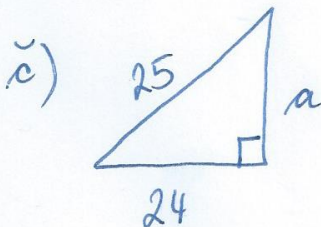
$$z^2 = 174,24 + 72,25$$

$$z^2 = 246,5$$

$$z = \sqrt{246,5}$$

$$z = 15,7$$

RAČUNAM
HIPOTENUZO.



$$a^2 = 25^2 - 24^2$$

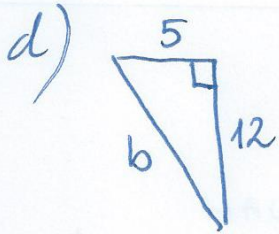
$$a^2 = 625 - 576$$

$$a^2 = 49$$

$$a = \sqrt{49}$$

$$a = 7$$

RAČUNAM
KATETO!



$$b^2 = 5^2 + 12^2$$

$$b^2 = 25 + 144$$

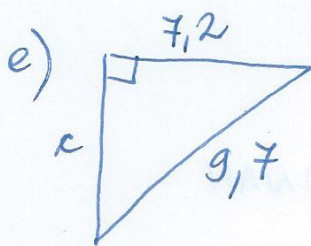
$$b^2 = 169$$

$$b = \sqrt{169}$$

$$b = 13$$

RAČUNAM

HIPOTENUZU.



$$c^2 = 9,7^2 - 7,2^2$$

$$c^2 = 94,09 - 51,84$$

$$c^2 = 42,25$$

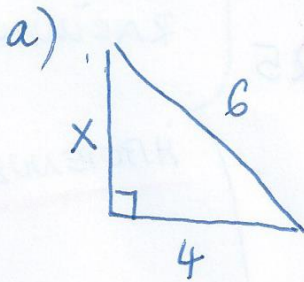
$$c = \sqrt{42,25}$$

$$c = 6,5$$

RAČUNAM

KATETU.

£2 str. 176/10



$$x^2 = 6^2 - 4^2$$

$$x^2 = 36 - 16$$

$$x^2 = 20$$

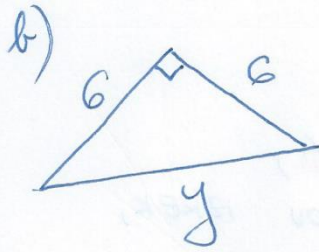
$$x = \sqrt{20}$$

$$x = \sqrt{4 \cdot 5}$$

$$x = 2 \cdot \sqrt{5}$$

RAČUNAM

KATETU.



$$y^2 = 6^2 + 6^2$$

$$y^2 = 36 + 36$$

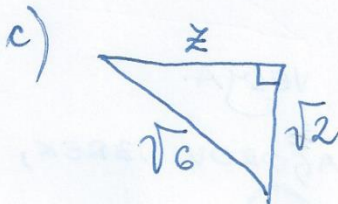
$$y^2 = 72$$

$$y = \sqrt{72}$$

$$y = \sqrt{36 \cdot 2}$$

$$y = 6 \cdot \sqrt{2}$$

RAČUNAM
HIPOTENUZO.



$$z^2 = (\sqrt{6})^2 - (\sqrt{2})^2$$

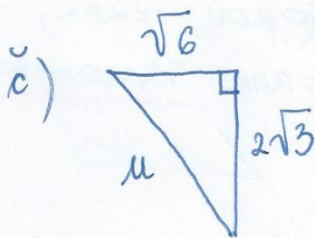
$$z^2 = 6 - 2$$

$$z^2 = 4$$

$$z = \sqrt{4}$$

$$z = 2$$

RAČUNAM
KATETO.



$$u^2 = (\sqrt{6})^2 + (2\sqrt{3})^2$$

$$u^2 = 6 + 4 \cdot 3$$

$$u^2 = 6 + 12$$

$$u^2 = 18$$

$$u = \sqrt{18}$$

$$u = \sqrt{9 \cdot 2}$$

$$u = 3 \cdot \sqrt{2}$$

RAČUNAM
HIPOTENUZO.

£ 2 str. 177/15

a) $52^2 = 48^2 + 20^2$
 $2704 = 2304 + 400$
 $2704 = 2704$

ENAKOST VELJA,
VELJA PITAGOROV IZREK,
ZATO JE TRIKOTNIK PRAVOKOTEN.

b) $60^2 = 48^2 + 32^2$
 $3600 = 2304 + 1024$
 $3600 > 3328$

ENAKOST NE VELJA.
NE VELJA PITAGOROV IZREK,
ZATO TRIKOTNIK NI PRAVOKOTEN.

c) $84^2 = 53^2 + 73^2$
 $7056 = 2809 + 5329$
 $7056 < 8138$

ENAKOST NE VELJA.
NE VELJA PITAGOROV IZREK,
ZATO TRIKOTNIK NI PRAVOKOTEN.

č) $433^2 = 408^2 + 145^2$
 $187489 = 166464 + 21025$
 $187489 = 187489$

ENAKOST VELJA.
VELJA PITAGOROV IZREK,
ZATO JE TRIKOTNIK PRAVOKOTEN.

d) $6,85^2 = 6,67^2 + 1,56^2$
 $46,9225 = 44,4889 + 2,4336$
 $46,9225 = 46,9225$

ENAKOST VELJA.
VELJA PITAGOROV IZREK,
ZATO JE TRIKOTNIK PRAVOKOTEN.