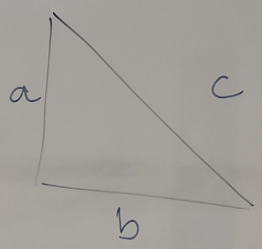
Питагорина теорема - вежбање

220. а) $a = 20\,cm$
$b = 21\,cm$
$c = ?$



$c^2 = a^2 + b^2$

$c^2 = 20^2 + 21^2$

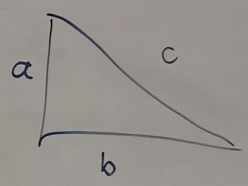
$c^2 = 400 + 441$

$c^2 = 841$

$c = \sqrt{841}$

$c = 29\,cm$

б) $a = 8\,dm$
$b = 15\,dm$
$c = ?$



$c^2 = a^2 + b^2$

$c^2 = 8^2 + 15^2$

$c^2 = 64 + 225$

$c^2 = 289$

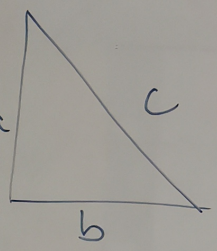
$c = \sqrt{289}$

$c = 17\,dm$

Домашнє: 220 б, г
221 б, г

221.

а) $c = 25$ см
$a = 20$ см
$b = ?$



$c^2 = a^2 + b^2$

$b^2 = c^2 - a^2$

$b^2 = 25^2 - 20^2$

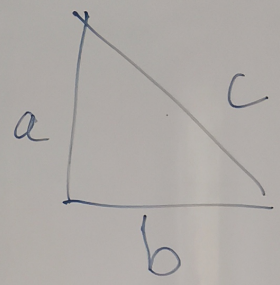
$b^2 = 625 - 400$

$b^2 = 225$

$b = \sqrt{225}$

$b = 15$ см

б) $b = 12$ дм
$c = 15$ дм
$a = ?$



$c^2 = a^2 + b^2$

$a^2 = c^2 - b^2$

$a^2 = 15^2 - 12^2$

$a^2 = 225 - 144$

$a^2 = 81$

$a = \sqrt{81}$

$a = 9$ дм