Worksheet

08/28/2018

Free on dw-math.com
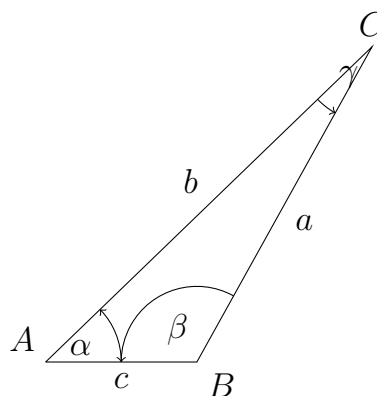
Problem quickname: 3913
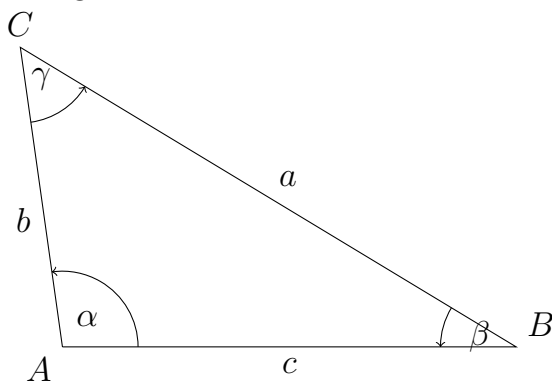
<u>1)</u>

Draw a triangle with the given dimensions. Measure the size of angles α, β and γ. Measure the lengths of the sides a, b and c.
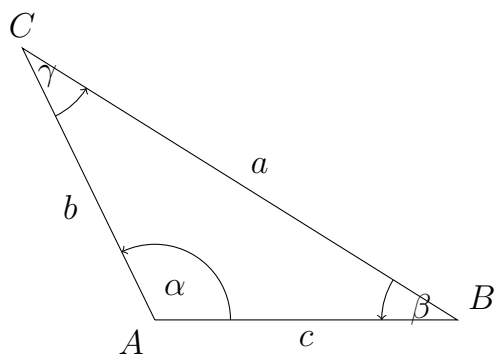
a) $a = 4.8$ cm, $b = 6$ cm, $c = 2$ cm
$a = 4.8$ cm, $b = 6$ cm, $c = 2$ cm
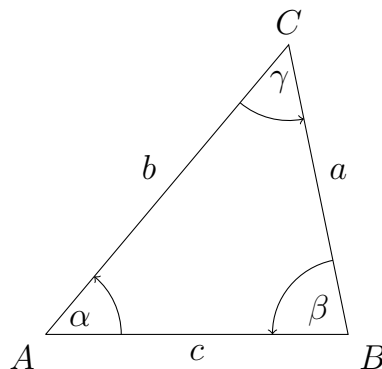$\alpha = 44$ degrees, $\beta = 119$ degrees, $\gamma = 17$ degrees

b) $c = 6$ cm, $\beta = 31$ degrees, $a = 7.7$ cm
$a = 7.7$ cm, $b = 4$ cm, $c = 6$ cm
$\alpha = 98$ degrees, $\beta = 31$ degrees, $\gamma = 51$ degrees

c) $a = 6.8$ cm, $b = 4$ cm, $c = 4$ cm
$a = 6.8$ cm, $b = 4$ cm, $c = 4$ cm
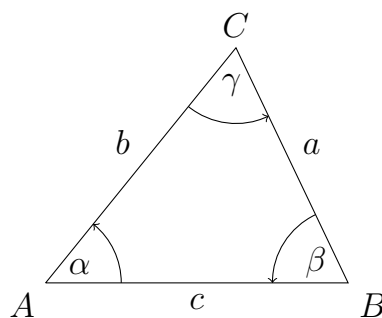$\alpha = 116$ degrees, $\beta = 32$ degrees, $\gamma = 32$ degrees

d) $\beta = 78$ degrees, $a = 3.9$ cm, $\gamma = 52$ degrees
$a = 3.9$ cm, $b = 5$ cm, $c = 4$ cm
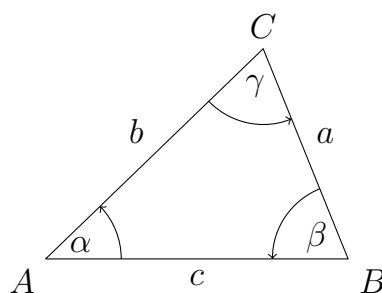$\alpha = 50$ degrees, $\beta = 78$ degrees, $\gamma = 52$ degrees

<u>2)</u>

Draw a triangle with the given dimensions. Measure the lengths of the sides a, b and c.

a) $\beta = 65$ degrees, $a = 3.4$ cm, $\gamma = 65$ degrees
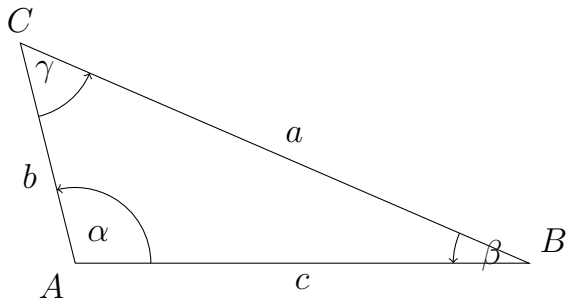$a = 3.4$ cm, $b = 4$ cm, $c = 4$ cm

b) $\alpha = 44$ degrees, $c = 4$ cm, $\beta = 68$ degrees
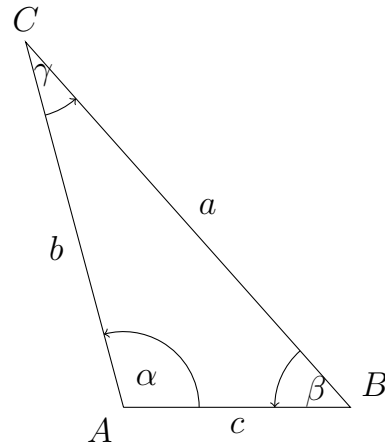$a = 3$ cm, $b = 4$ cm, $c = 4$ cm

c) $\gamma = 53$ degrees, $b = 3$ cm, $\alpha = 104$ degrees
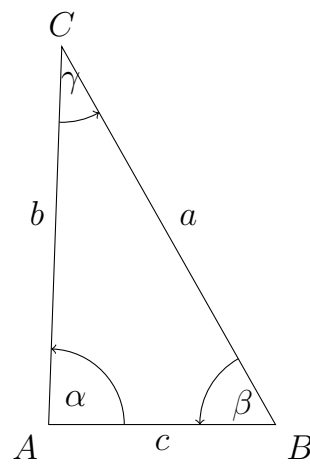$a = 7.3$ cm, $b = 3$ cm, $c = 6$ cm

d) $a = 6.5$ cm, $b = 5$ cm, $c = 3$ cm
   $a = 6.5$ cm, $b = 5$ cm, $c = 3$ cm

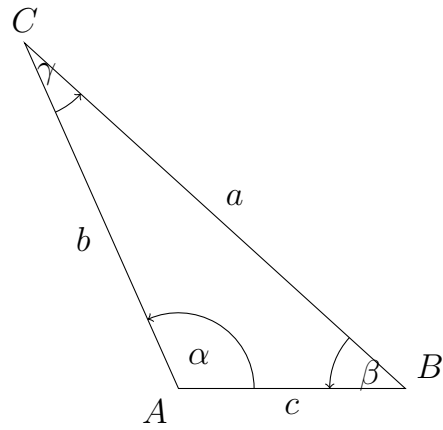

3)

<div style="text-align: right">Quick:
3913</div>

Draw a triangle with the given dimensions. Measure the size of angles α, β and γ.

a) $\beta = 61$ degrees, $a = 5.7$ cm, $\gamma = 31$ degrees $\alpha = 88$ degrees, $\beta = 61$ degrees, $\gamma = 31$ degrees
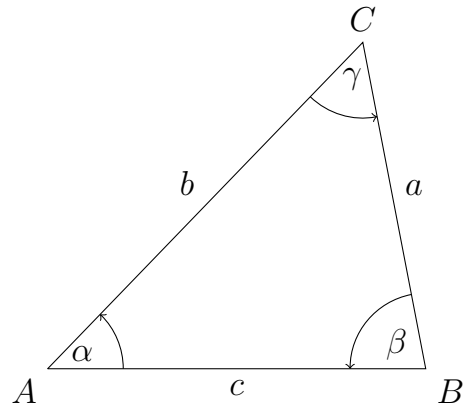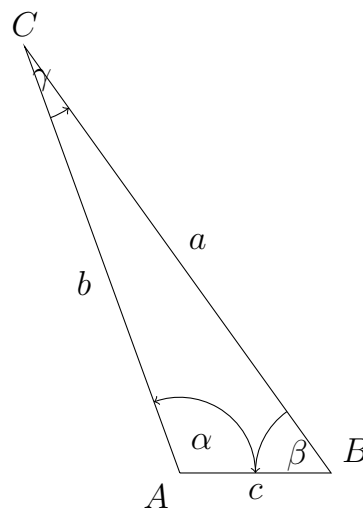
b) $a = 6.8$ cm, $b = 5$ cm, $c = 3$ cm
$\alpha = 114$ degrees, $\beta = 42$ degrees, $\gamma = 24$ degrees

c) $\gamma = 55$ degrees, $b = 6$ cm, $\alpha = 46$ degrees
$\alpha = 46$ degrees, $\beta = 79$ degrees, $\gamma = 55$ degrees

d) $c = 2$ cm, $\beta = 54$ degrees, $a = 6.9$ cm
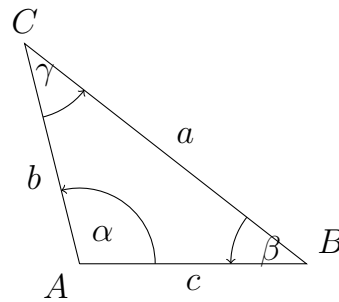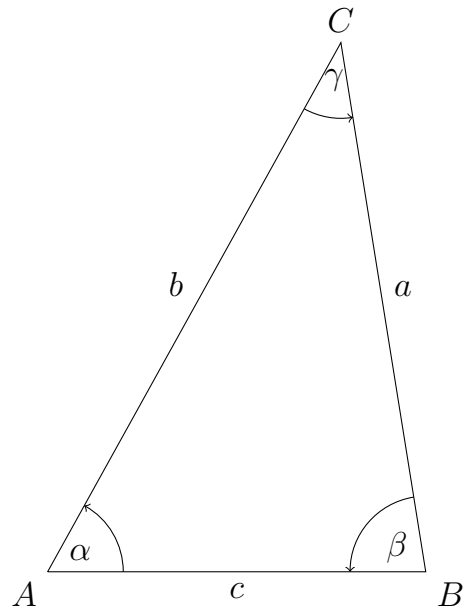$\alpha = 110$ degrees, $\beta = 54$ degrees, $\gamma = 16$ degrees

<u>4)</u>

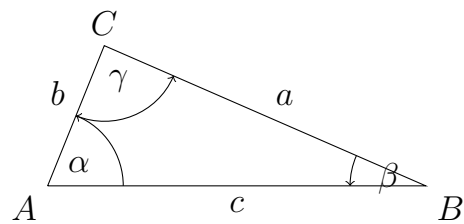Draw a triangle with the given dimensions. Measure the lengths of the sides a, b and c.

a) $\gamma = 38$ degrees, $b = 3$ cm, $\alpha = 104$ degrees
$a = 4.7$ cm, $b = 3$ cm, $c = 3$ cm
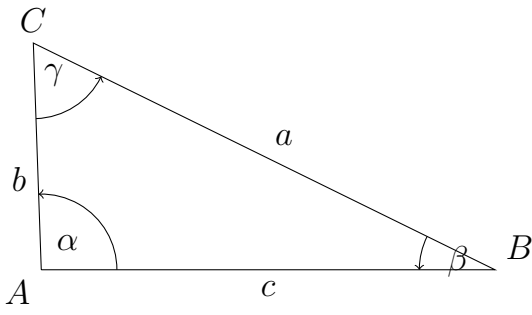
b) $\alpha = 61$ degrees, $c = 5$ cm, $\beta = 81$ degrees
$a = 7.1$ cm, $b = 8$ cm, $c = 5$ cm

c) $\beta = 24$ degrees, $a = 4.6$ cm,
$\gamma = 88$ degrees
$a = 4.6$ cm, $b = 2$ cm, $c = 5$ cm

d) $\beta = 26$ degrees, $a = 6.8$ cm,
$\gamma = 62$ degrees
$a = 6.8$ cm, $b = 3$ cm, $c = 6$ cm

Good Luck!