

Worksheet

08/28/2018

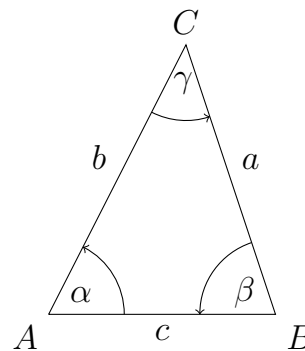
Free on dw-math.com

Problem quickname: 3913

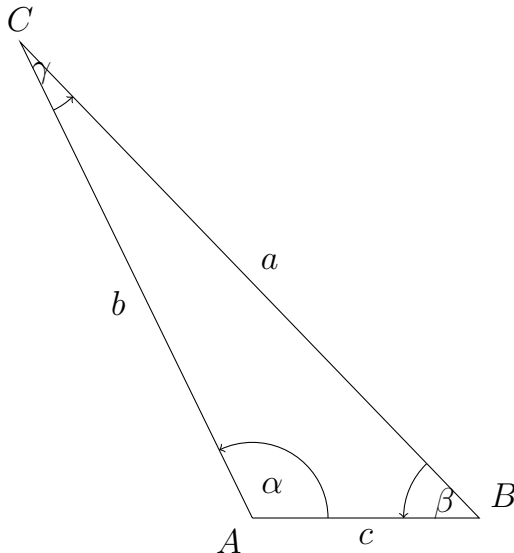
1)

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 .

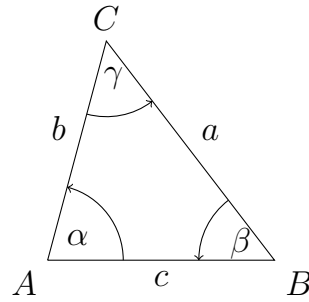
- a) $\beta = 72$ degrees, $a = 3.8$ cm, $\gamma = 45$ degrees
 $a = 3.8$ cm, $b = 4$ cm, $c = 3$ cm
 $\alpha = 63$ degrees, $\beta = 72$ degrees, $\gamma = 45$ degrees



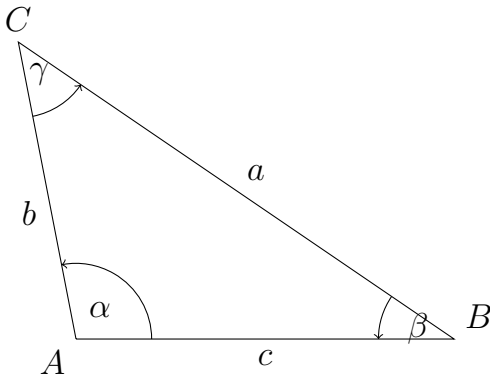
- b) $\beta = 46$ degrees, $a = 8.7$ cm, $\gamma = 18$ degrees
 $a = 8.7$ cm, $b = 7$ cm, $c = 3$ cm
 $\alpha = 116$ degrees, $\beta = 46$ degrees, $\gamma = 18$ degrees

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- c) $\alpha = 75$ degrees, $c = 3$ cm, $\beta = 52$ degrees
 $a = 3.7$ cm, $b = 3$ cm, $c = 3$ cm
 $\alpha = 75$ degrees, $\beta = 52$ degrees, $\gamma = 52$ degrees



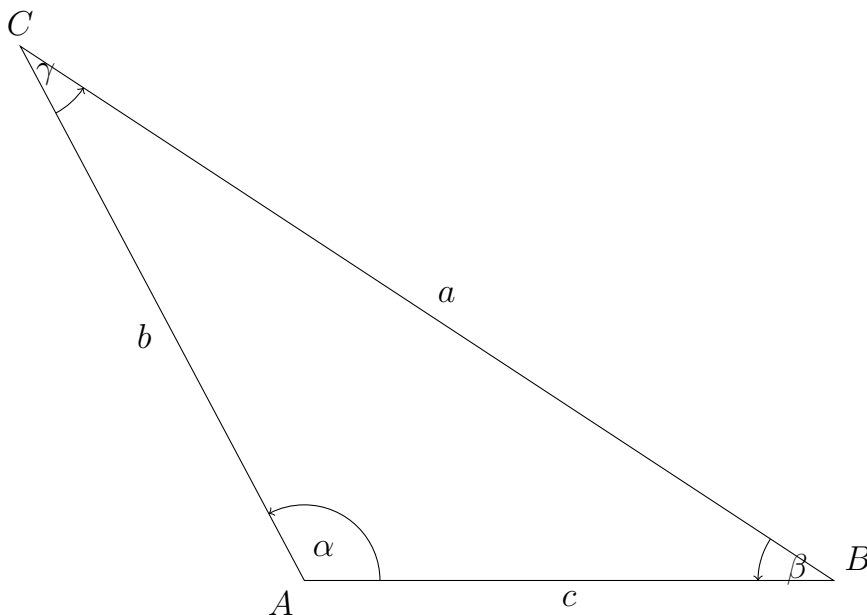
- d) $a = 7$ cm, $b = 4$ cm, $c = 5$ cm
 $a = 7$ cm, $b = 4$ cm, $c = 5$ cm
 $\alpha = 101$ degrees, $\beta = 34$ degrees, $\gamma = 45$ degrees



2)

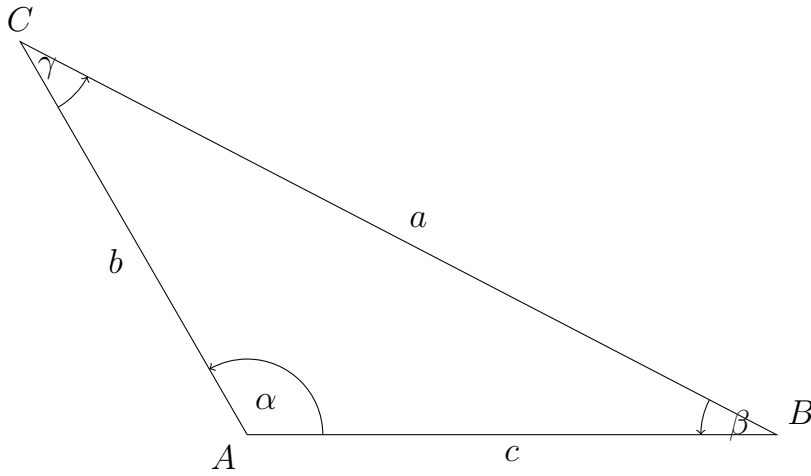
Draw a triangle with the given dimensions. Measure the lengths of the sides a , b and c .

- a) $a = 12.9$ cm, $b = 8$ cm, $c = 7$ cm
 $a = 12.9$ cm, $b = 8$ cm, $c = 7$ cm

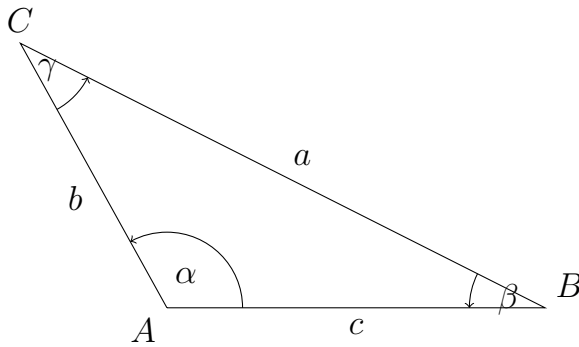


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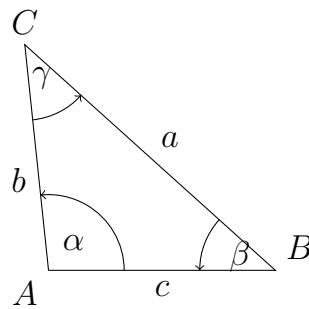
- b) $a = 11.3$ cm, $b = 6$ cm, $c = 7$ cm
 $a = 11.3$ cm, $b = 6$ cm, $c = 7$ cm



- c) $\alpha = 119$ degrees, $c = 5$ cm, $\beta = 27$ degrees
 $a = 7.8$ cm, $b = 4$ cm, $c = 5$ cm



- d) $\alpha = 96$ degrees, $c = 3$ cm, $\beta = 42$ degrees
 $a = 4.5$ cm, $b = 3$ cm, $c = 3$ cm

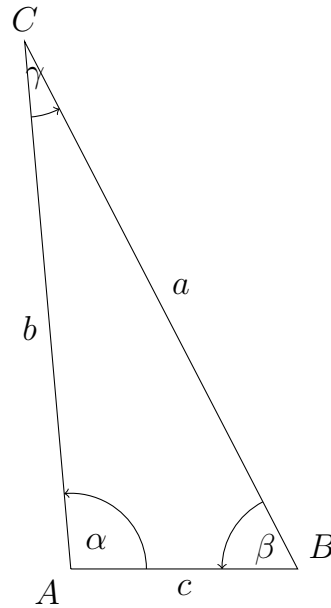


3)

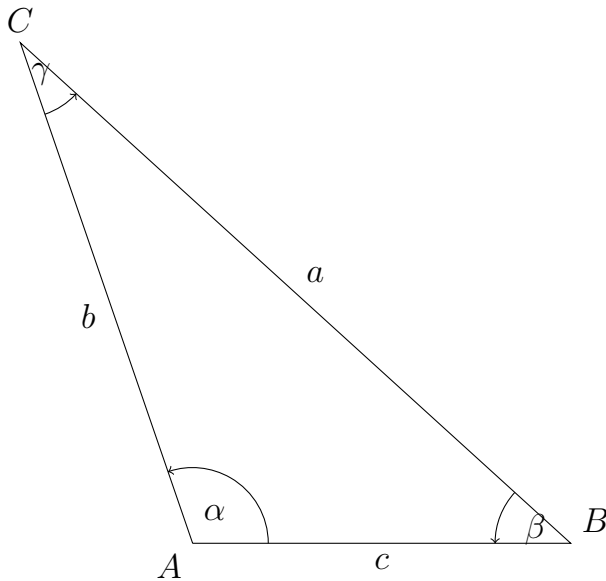
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Draw a triangle with the given dimensions. Measure the size of angles α , β and γ .

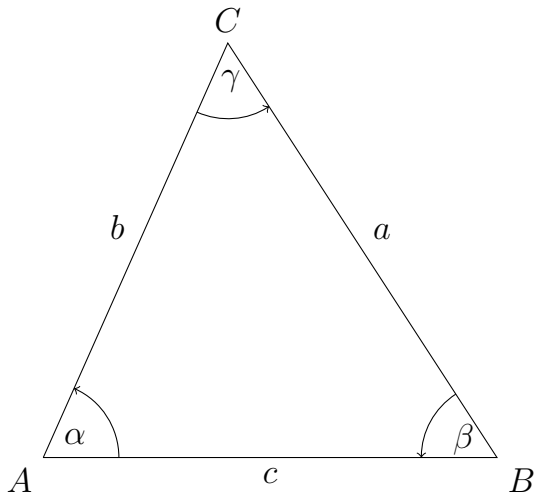
- a) $\beta = 63$ degrees, $a = 7.9$ cm, $\gamma = 22$ degrees
 $\alpha = 95$ degrees, $\beta = 63$ degrees,
 $\gamma = 22$ degrees



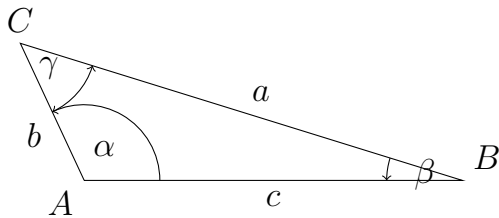
- b) $a = 9.8$ cm, $b = 7$ cm, $c = 5$ cm
 $\alpha = 109$ degrees, $\beta = 42$ degrees, $\gamma = 29$ degrees



- c) $\beta = 57$ degrees, $a = 6.5$ cm, $\gamma = 57$ degrees
 $\alpha = 66$ degrees, $\beta = 57$ degrees,
 $\gamma = 57$ degrees



- d) $c = 5$ cm, $\beta = 17$ degrees, $a = 6.1$ cm
 $\alpha = 115$ degrees, $\beta = 17$ degrees, $\gamma = 48$ degrees

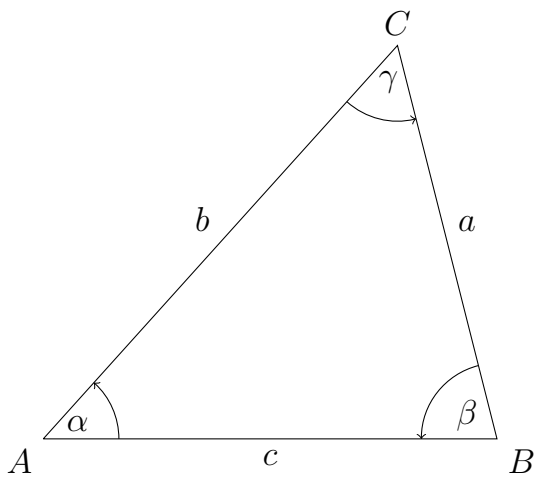


4)

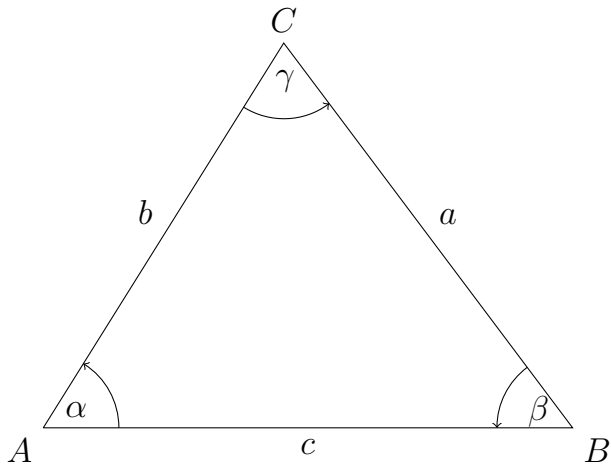
Draw a triangle with the given dimensions. Measure the lengths of the sides a , b and c .

Quick:
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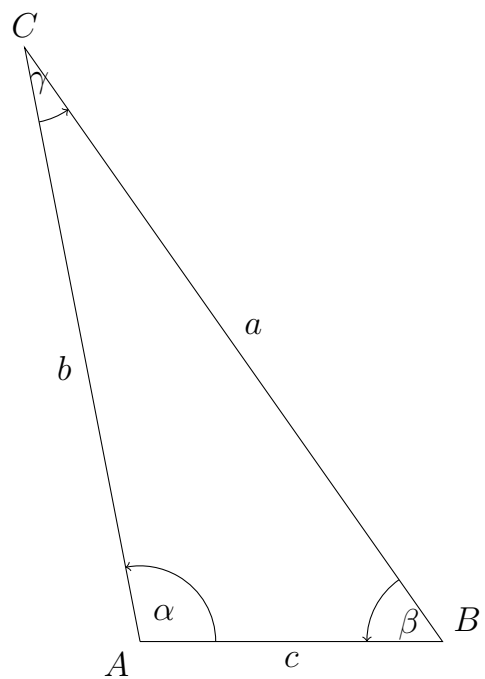
- a) $\gamma = 56$ degrees, $b = 7$ cm, $\alpha = 48$ degrees
 $a = 5.4$ cm, $b = 7$ cm, $c = 6$ cm



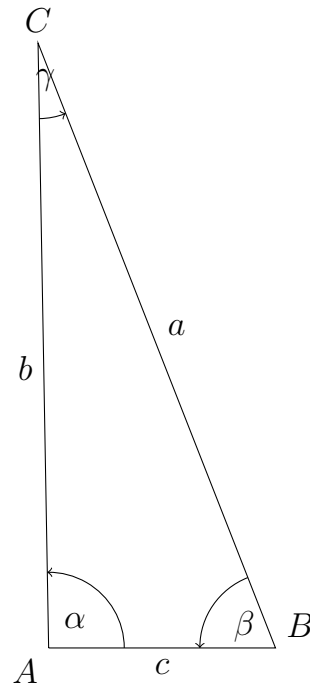
- b) $\alpha = 58$ degrees, $c = 7$ cm, $\beta = 53$ degrees
 $a = 6.4$ cm, $b = 6$ cm, $c = 7$ cm



- c) $\beta = 55$ degrees, $a = 9.6$ cm, $\gamma = 24$ degrees
 $a = 9.6$ cm, $b = 8$ cm, $c = 4$ cm



- d) $\alpha = 91$ degrees, $c = 3$ cm, $\beta = 69$ degrees
 $a = 8.6$ cm, $b = 8$ cm, $c = 3$ cm



Good Luck!