

Worksheet

08/28/2018

Free on dw-math.com

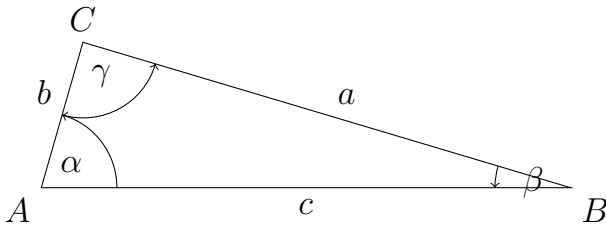
Problem quickname: 3913

1)

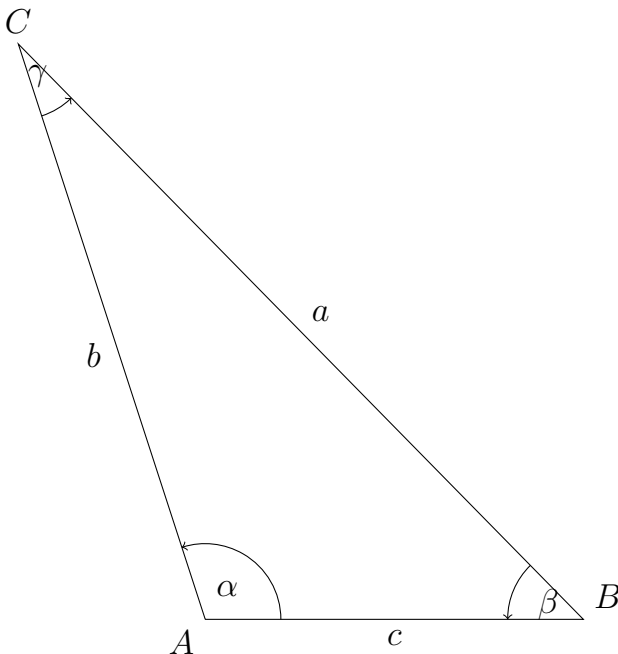
Draw a triangle with the given dimensions. Measure the size of angles α , β and γ . Measure the lengths of the sides a , b and c .

Quick:
3913

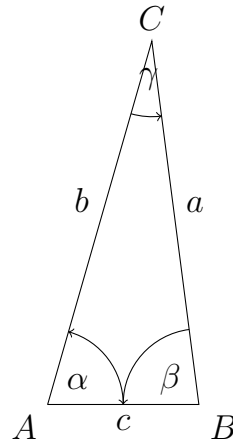
- a) $b = 2$ cm, $\alpha = 74$ degrees, $c = 7$ cm
 $a = 6.7$ cm, $b = 2$ cm, $c = 7$ cm
 $\alpha = 74$ degrees, $\beta = 17$ degrees, $\gamma = 89$ degrees



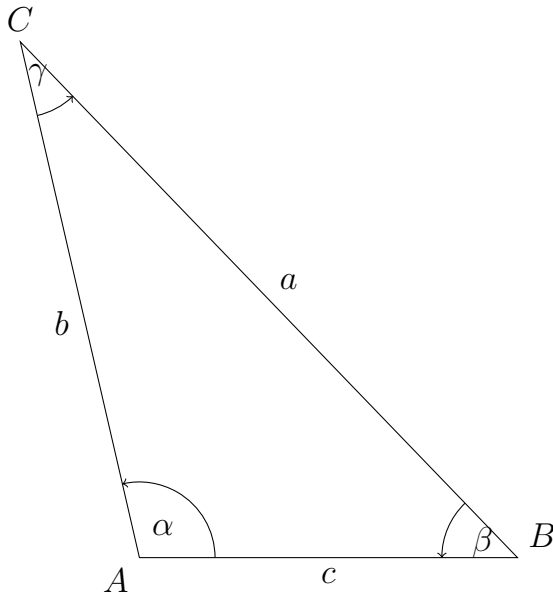
- b) $a = 10.7$ cm, $\gamma = 26$ degrees, $b = 8$ cm
 $a = 10.7$ cm, $b = 8$ cm, $c = 5$ cm
 $\alpha = 108$ degrees, $\beta = 46$ degrees, $\gamma = 26$ degrees



- c) $a = 4.8$ cm, $b = 5$ cm, $c = 2$ cm
 $a = 4.8$ cm, $b = 5$ cm, $c = 2$ cm
 $\alpha = 74$ degrees, $\beta = 83$ degrees, $\gamma = 23$ degrees



- d) $\alpha = 103$ degrees, $c = 5$ cm, $\beta = 46$ degrees
 $a = 9.5$ cm, $b = 7$ cm, $c = 5$ cm
 $\alpha = 103$ degrees, $\beta = 46$ degrees, $\gamma = 31$ degrees

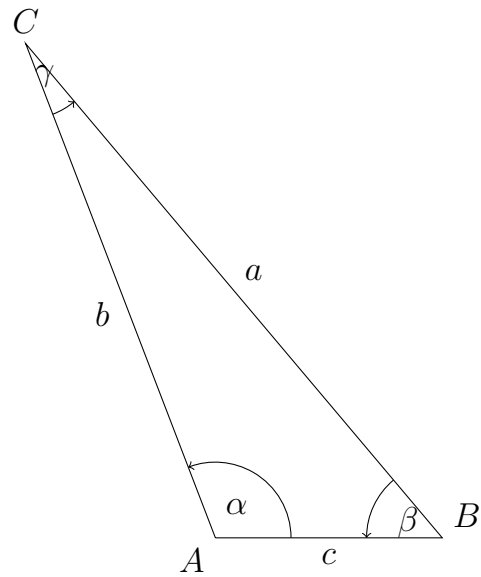


2)

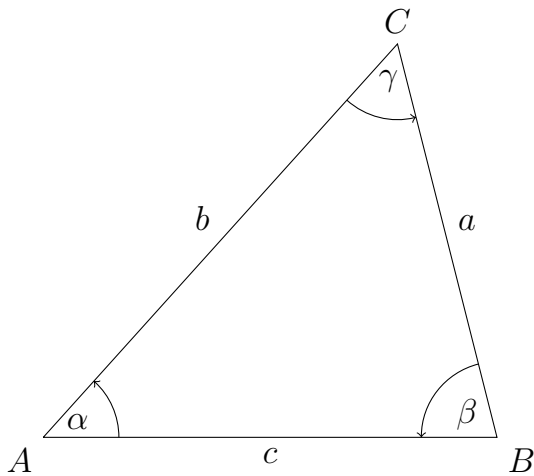
Quick:
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Draw a triangle with the given dimensions. Measure the lengths of the sides a , b and c .

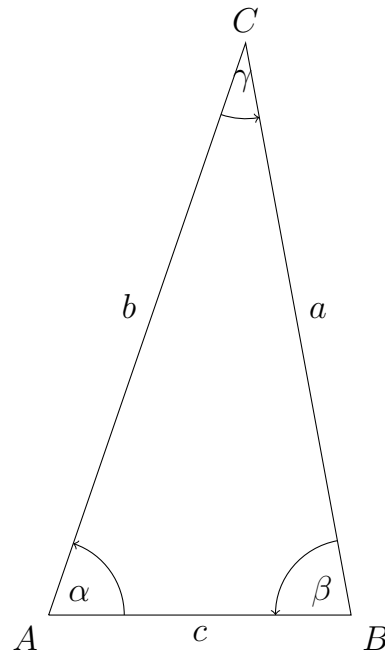
- a) $a = 8.5$ cm, $b = 7$ cm, $c = 3$ cm
 $a = 8.5$ cm, $b = 7$ cm, $c = 3$ cm



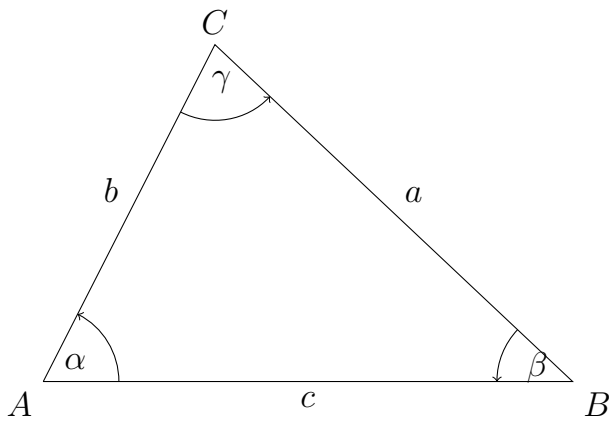
- b) $\beta = 76$ degrees, $a = 5.4$ cm,
 $\gamma = 56$ degrees
 $a = 5.4$ cm, $b = 7$ cm, $c = 6$ cm



- c) $\gamma = 29$ degrees, $b = 8$ cm, $\alpha = 71$ degrees
 $a = 7.7$ cm, $b = 8$ cm, $c = 4$ cm



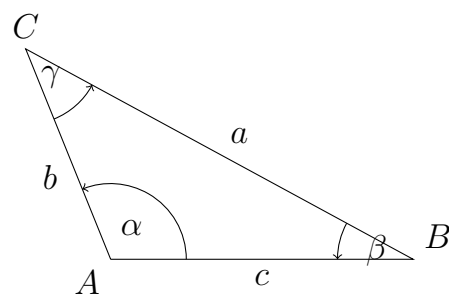
- d) $\alpha = 63$ degrees, $c = 7$ cm, $\beta = 43$ degrees
 $a = 6.5$ cm, $b = 5$ cm, $c = 7$ cm



3)

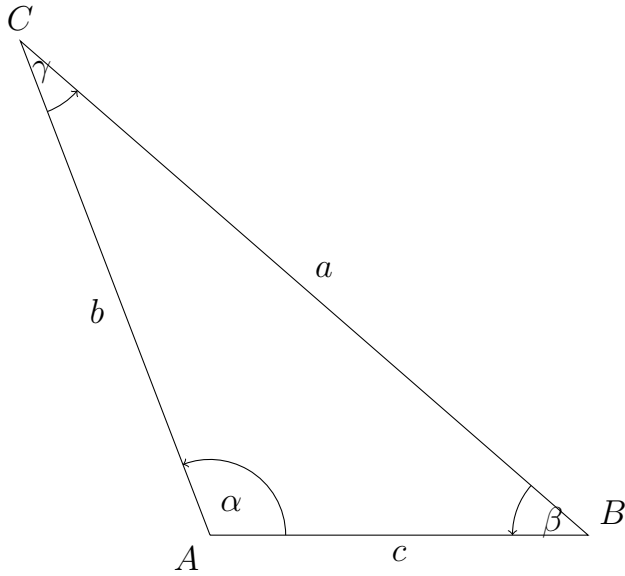
Draw a triangle with the given dimensions. Measure the size of angles α , β and γ .

- a) $b = 3$ cm, $\alpha = 112$ degrees, $c = 4$ cm
 $\alpha = 112$ degrees, $\beta = 28$ degrees, $\gamma = 40$ degrees

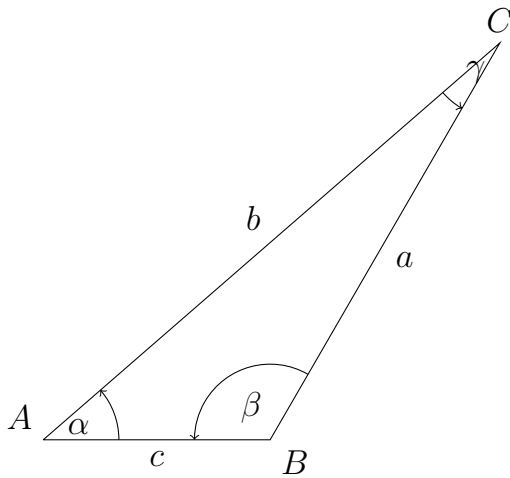


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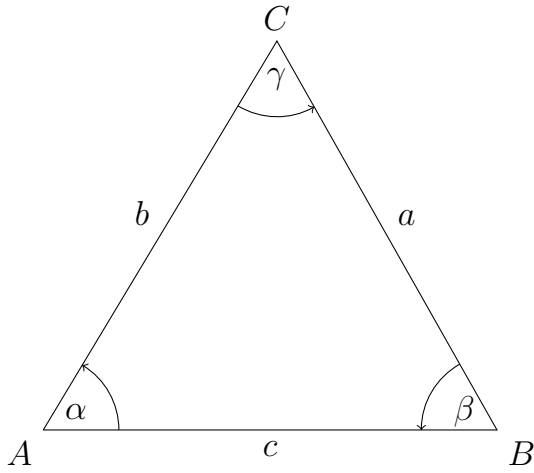
- b) $b = 7$ cm, $\alpha = 111$ degrees, $c = 5$ cm
 $\alpha = 111$ degrees, $\beta = 41$ degrees, $\gamma = 28$ degrees



- c) $\gamma = 19$ degrees, $b = 8$ cm, $\alpha = 41$ degrees
 $\alpha = 41$ degrees, $\beta = 120$ degrees, $\gamma = 19$ degrees



- d) $\beta = 60$ degrees, $a = 5.9$ cm, $\gamma = 60$ degrees
 $\alpha = 59$ degrees, $\beta = 60$ degrees, $\gamma = 60$ degrees

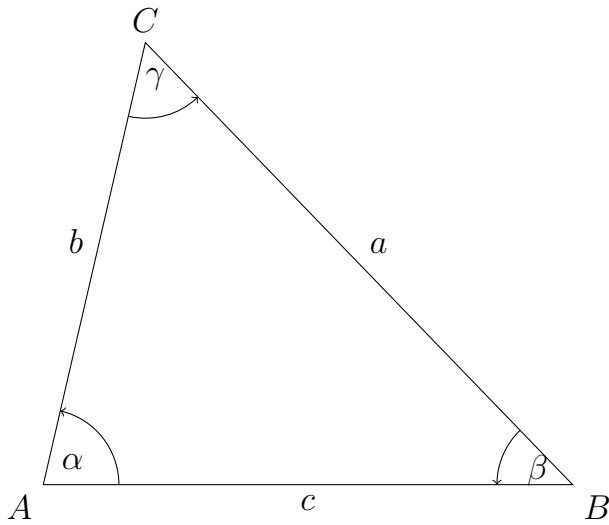


4)

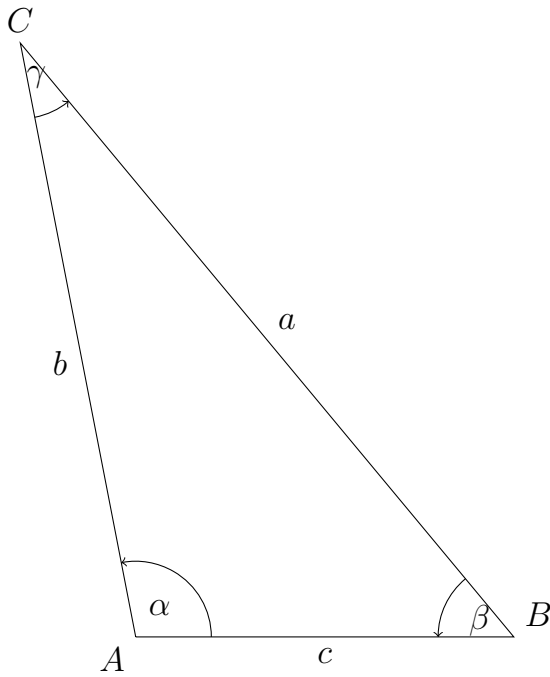
Draw a triangle with the given dimensions. Measure the lengths of the sides a , b and c .

Quick:
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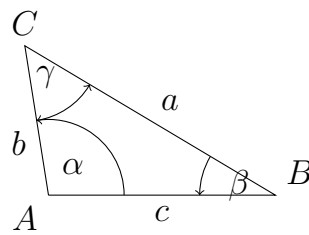
- a) $\beta = 46$ degrees, $a = 8.1$ cm,
 $\gamma = 57$ degrees
 $a = 8.1$ cm, $b = 6$ cm, $c = 7$ cm



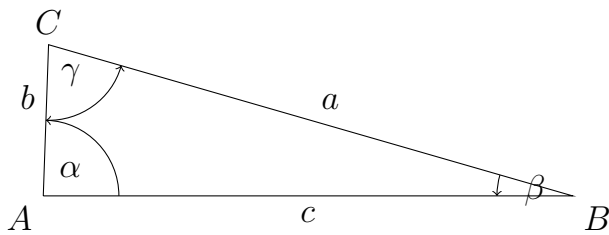
- b) $\beta = 50$ degrees, $a = 10.2$ cm,
 $\gamma = 29$ degrees
 $a = 10.2$ cm, $b = 8$ cm, $c = 5$ cm



- c) $\alpha = 99$ degrees, $c = 3$ cm, $\beta = 31$ degrees
 $a = 3.9$ cm, $b = 2$ cm, $c = 3$ cm



- d) $\alpha = 88$ degrees, $c = 7$ cm, $\beta = 16$ degrees
 $a = 7.2$ cm, $b = 2$ cm, $c = 7$ cm



Good Luck!