Worksheet

09/16/2018

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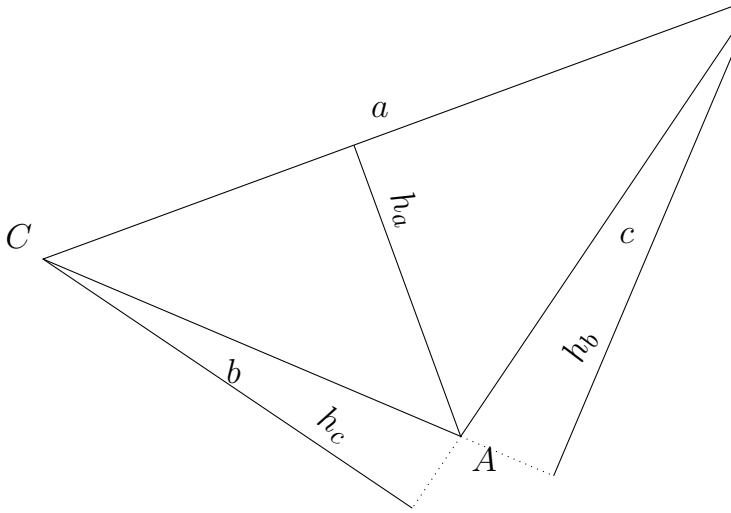
Problem quickname: 4289

1)

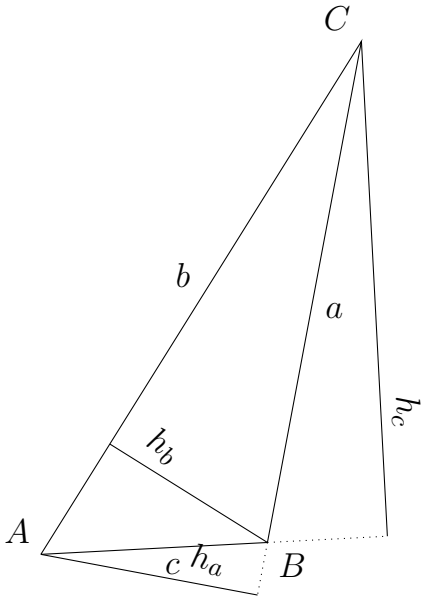
Quick: 4289

Draw a triangle with the specified dimensions and calculate its area. Do this by drawing a height of your choice and measuring the length of this height and the corresponding side..

a) $a = 10.1$ cm, $b = 6$ cm, $c = 7$ cm Fläche:
$a \cdot h_a/2 = 10.1 \cdot 4.1/2 = 20.7$
$b \cdot h_b/2 = 6 \cdot 6.9/2 = 20.7$
$c \cdot h_c/2 = 7 \cdot 5.9/2 = 20.7$



b) $\beta = 104$ degrees, $a = 6.7$ cm, $\gamma = 21$ degrees Fläche: $a \cdot h_a/2 = 6.7 \cdot 2.9/2 = 9.7$
$b \cdot h_b/2 = 8 \cdot 2.5/2 = 10$
$c \cdot h_c/2 = 3 \cdot 6.6/2 = 9.9$



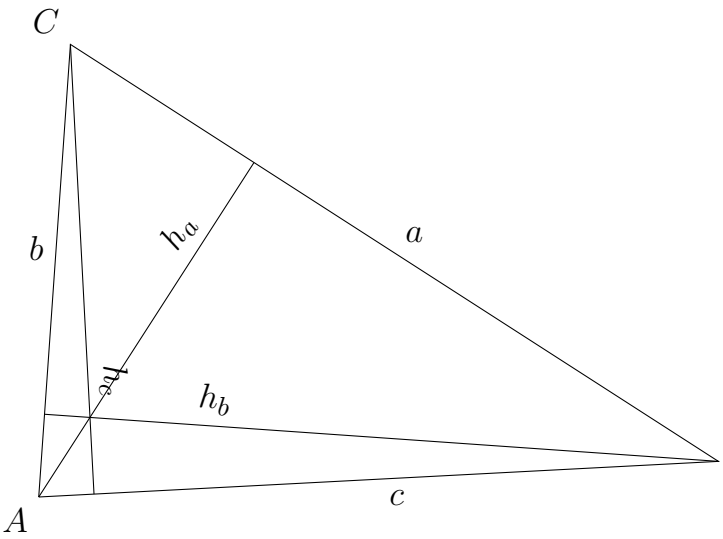
2)

Quick: 4289

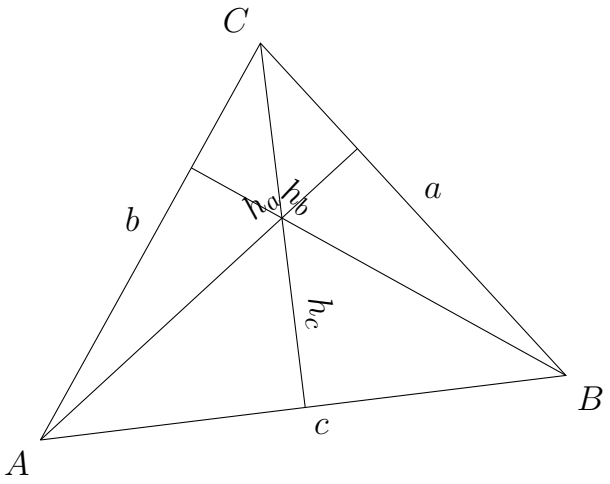
Draw a triangle with the specified dimensions and calculate its area. Do this by

drawing a height of your choice and measuring the length of this height and the corresponding side..

a) $b = 6$ cm, $\alpha = 83$ degrees, $c = 9$ cm Fläche:
$a \cdot h_a/2 = 10.2 \cdot 5.3/2 = 27$
$b \cdot h_b/2 = 6 \cdot 8.9/2 = 26.7$
$c \cdot h_c/2 = 9 \cdot 6/2 = 27$



b) $\beta = 54$ degrees, $a = 6$ cm, $\gamma = 72$ degrees
Fläche: $a \cdot h_a/2 = 6 \cdot 5.7/2 = 17.1$
$b \cdot h_b/2 = 6 \cdot 5.7/2 = 17.1$
$c \cdot h_c/2 = 7 \cdot 4.9/2 = 17.2$



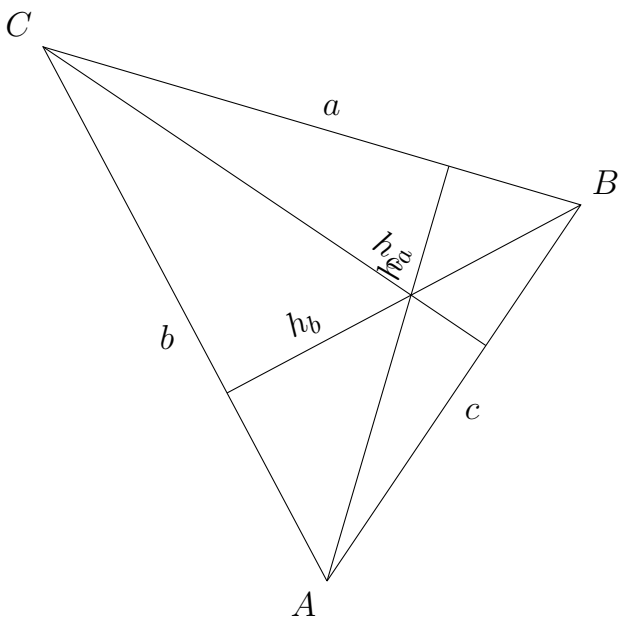
3)

Quick: 4289

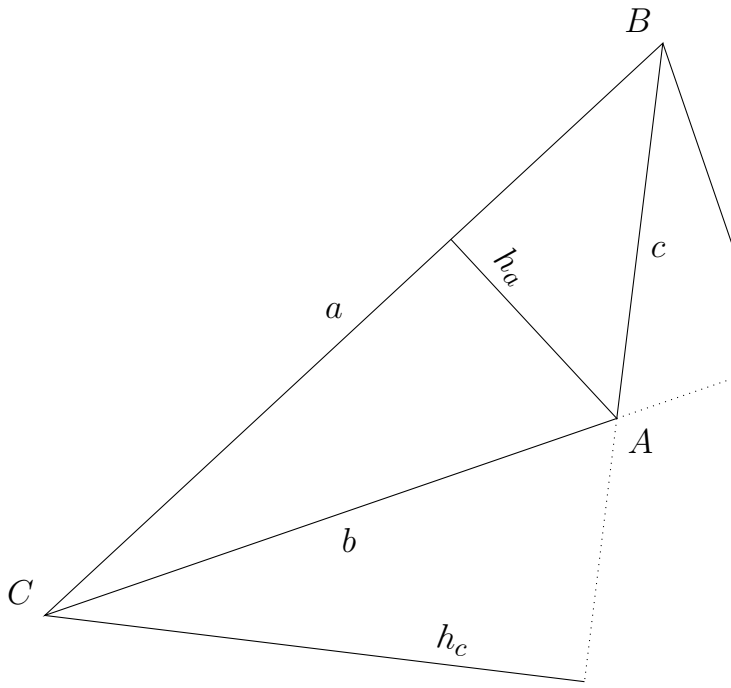
Draw a triangle with the specified dimensions and calculate its area. Do this by drawing a height of your choice and measuring the length of this height and the

corresponding side..

a) $b = 8$ cm, $\alpha = 62$ degrees, $c = 6$ cm Fläche:
$a \cdot h_a/2 = 7.4 \cdot 5.7/2 = 21.1$
$b \cdot h_b/2 = 8 \cdot 5.3/2 = 21.2$
$c \cdot h_c/2 = 6 \cdot 7.1/2 = 21.3$



b) $\beta = 40$ degrees, $a = 11.1$ cm, $\gamma = 24$ degrees Fläche: $a \cdot h_a/2 = 11.1 \cdot 3.2/2 = 17.8$
$b \cdot h_b/2 = 8 \cdot 4.5/2 = 18$
$c \cdot h_c/2 = 5 \cdot 7.2/2 = 18$



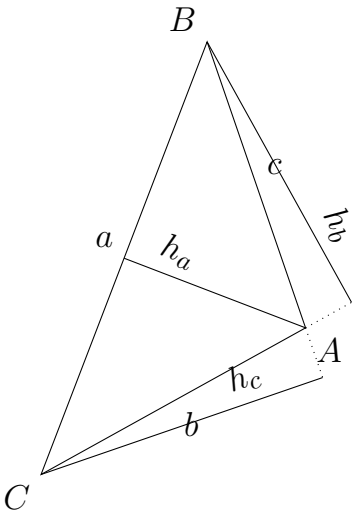
4)

Quick: 4289

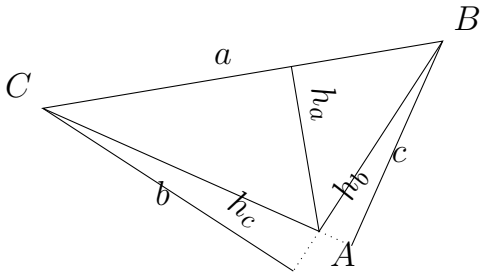
Draw a triangle with the specified dimensions and calculate its area. Do this by drawing a height of your choice and measuring the length of this height and the

corresponding side..

a) $a = 6.1$ cm, $b = 4$ cm, $c = 4$ cm Fläche:
$a \cdot h_a/2 = 6.1 \cdot 2.6/2 = 7.9$
$b \cdot h_b/2 = 4 \cdot 3.9/2 = 7.8$
$c \cdot h_c/2 = 4 \cdot 3.9/2 = 7.8$



b) $a = 5.4$ cm, $b = 4$ cm, $c = 3$ cm Fläche:
$a \cdot h_a/2 = 5.4 \cdot 2.2/2 = 5.9$
$b \cdot h_b/2 = 4 \cdot 3/2 = 6$
$c \cdot h_c/2 = 3 \cdot 4/2 = 6$



Good Luck!