Worksheet

09/16/2018

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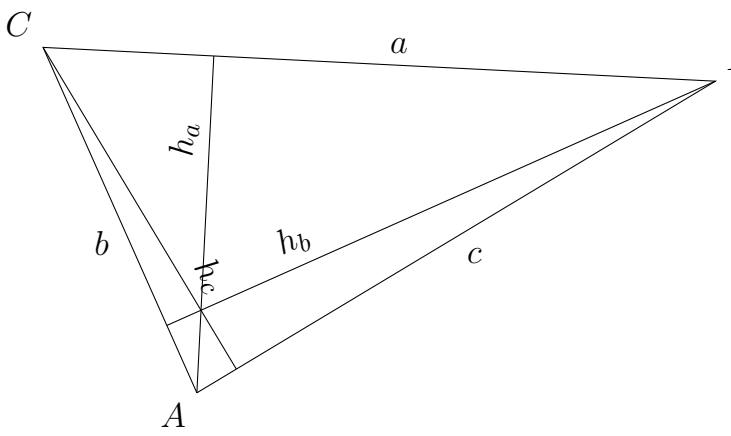
Problem quickname: 4289

1)

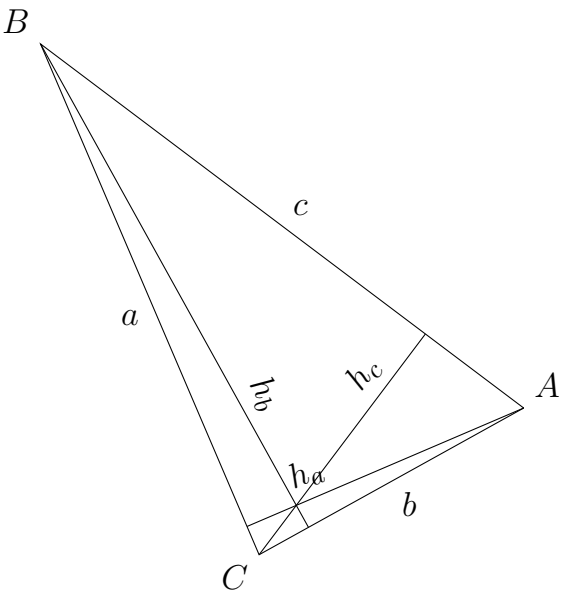
Quick: 4289

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) $c = 8$ cm, $\beta = 34$ degrees, $a = 8.9$ cm
Fläche: $a \cdot h_a/2 = 8.9 \cdot 4.5/2 = 20$
$b \cdot h_b/2 = 5 \cdot 7.9/2 = 19.8$
$c \cdot h_c/2 = 8 \cdot 5/2 = 20$



b) $\beta = 30$ degrees, $a = 7.3$ cm, $\gamma = 84$ degrees Fläche: $a \cdot h_a/2 = 7.3 \cdot 4/2 = 14.6$
$b \cdot h_b/2 = 4 \cdot 7.3/2 = 14.6$
$c \cdot h_c/2 = 8 \cdot 3.7/2 = 14.8$



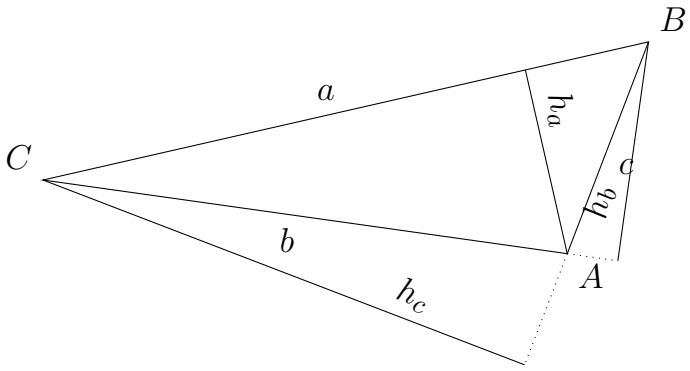
2)

Quick: 4289

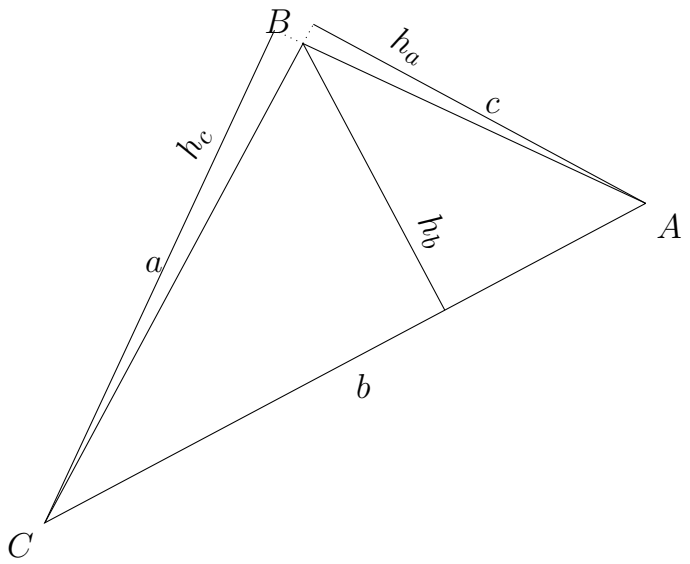
Draw a triangle with the specified dimensions and calculate its area. Do this by drawing a height of your choice and measuring the length of this height and the

corresponding side..

a) $a = 8.2$ cm, $b = 7$ cm, $c = 3$ cm Fläche:
$a \cdot h_a/2 = 8.2 \cdot 2.5/2 = 10.3$
$b \cdot h_b/2 = 7 \cdot 2.9/2 = 10.2$
$c \cdot h_c/2 = 3 \cdot 6.8/2 = 10.2$



b) $a = 7.2$ cm, $b = 9$ cm, $c = 5$ cm Fläche:
$a \cdot h_a/2 = 7.2 \cdot 5/2 = 18$
$b \cdot h_b/2 = 9 \cdot 4/2 = 18$
$c \cdot h_c/2 = 5 \cdot 7.2/2 = 18$



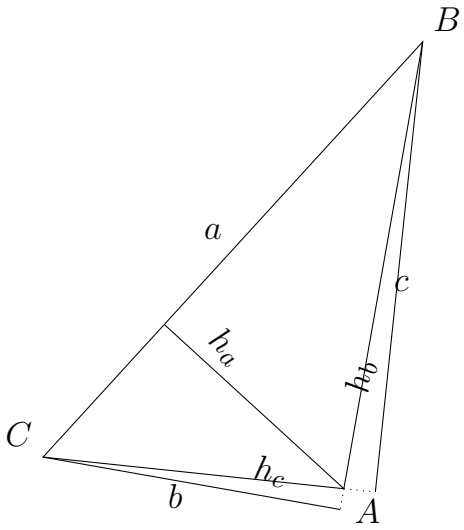
3)

Quick: 4289

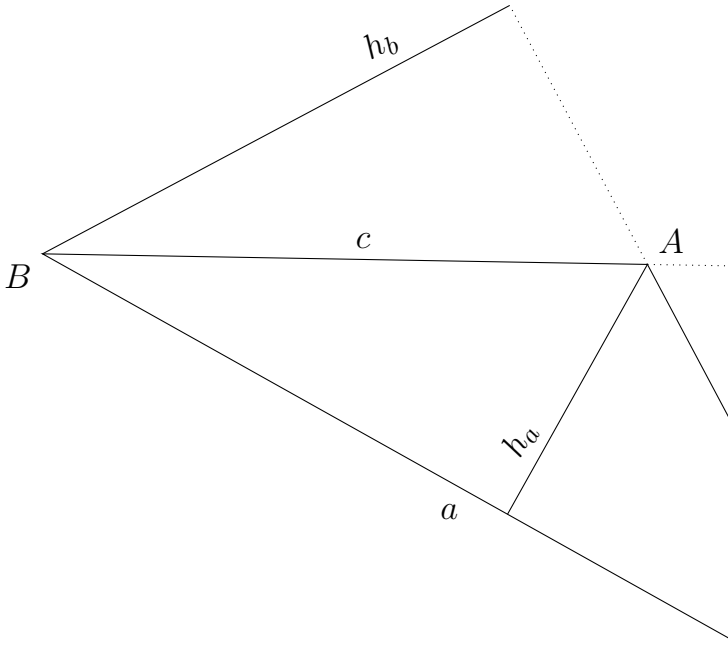
Draw a triangle with the specified dimensions and calculate its area. Do this by drawing a height of your choice and measuring the length of this height and the

corresponding side..

a) $b = 4$ cm, $\alpha = 94$ degrees, $c = 6$ cm Fläche:
$a \cdot h_a/2 = 7.4 \cdot 3.2/2 = 11.8$
$b \cdot h_b/2 = 4 \cdot 6/2 = 12$
$c \cdot h_c/2 = 6 \cdot 4/2 = 12$



b) $a = 12.9$ cm, $\gamma = 33$ degrees, $b = 7$ cm
Fläche: $a \cdot h_a/2 = 12.9 \cdot 3.8/2 = 24.5$
$b \cdot h_b/2 = 7 \cdot 7/2 = 24.5$
$c \cdot h_c/2 = 8 \cdot 6.1/2 = 24.4$



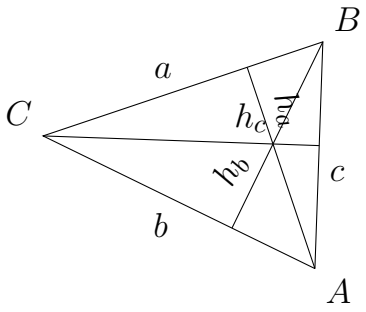
4)

Quick: 4289

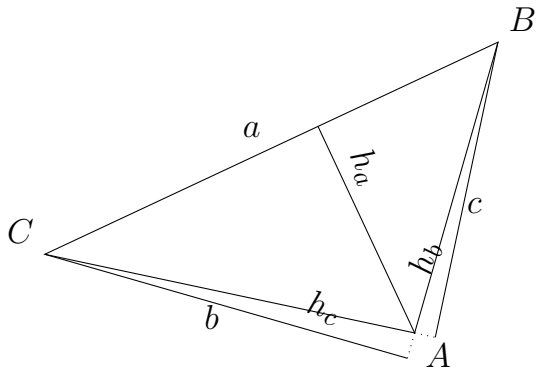
Draw a triangle with the specified dimensions and calculate its area. Do this by drawing a height of your choice and measuring the length of this height and the

corresponding side..

a) $a = 3.9$ cm, $\gamma = 45$ degrees, $b = 4$ cm
Fläche: $a \cdot h_a/2 = 3.9 \cdot 2.8/2 = 5.5$
$b \cdot h_b/2 = 4 \cdot 2.7/2 = 5.4$
$c \cdot h_c/2 = 3 \cdot 3.7/2 = 5.6$



b) $\alpha = 94$ degrees, $c = 4$ cm, $\beta = 49$ degrees
Fläche: $a \cdot h_a/2 = 6.6 \cdot 3/2 = 9.9$
$b \cdot h_b/2 = 5 \cdot 4/2 = 10$
$c \cdot h_c/2 = 4 \cdot 5/2 = 10$



Good Luck!