

## Area of a Triangle Using Sine



1)

$ABC$  is a triangle.  
 $AC = 8$  cm.  
 $BC = 10$  cm  
 Angle  $ACB = 42^\circ$

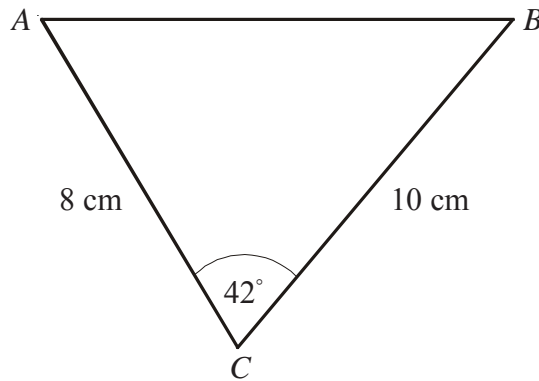


Diagram **NOT** accurately drawn.

Calculate the area of triangle  $ABC$ .  
 Give your answer correct to 3 significant figures.



2)

$ABC$  is a triangle.  
 $AB = 20$  cm.  
 $BC = 18$  cm  
 Angle  $ABC = 144^\circ$

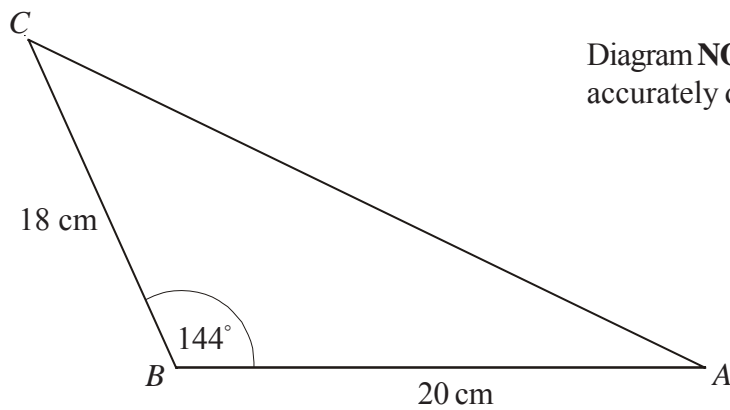


Diagram **NOT** accurately drawn.

Calculate the area of triangle  $ABC$ .  
 Give your answer correct to 3 significant figures.



3)

$ABC$  is a triangle.  
 $AC = 23$  cm.  
 $BC = 31$  cm  
 Angle  $BAC = 54^\circ$   
 Angle  $ABC = 39^\circ$

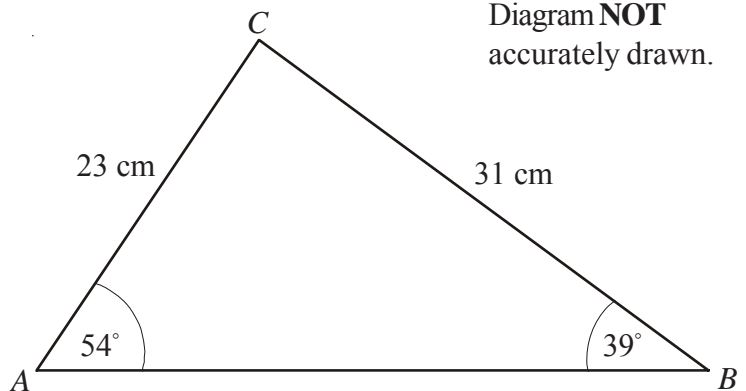


Diagram **NOT** accurately drawn.

Calculate the area of triangle  $ABC$ .  
 Give your answer correct to 3 significant figures.