

Examples

Workout



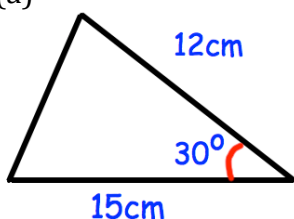
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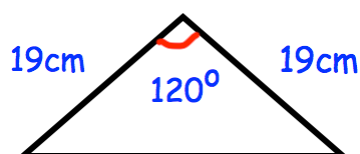
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Question 1: Find the area of each of these triangles.

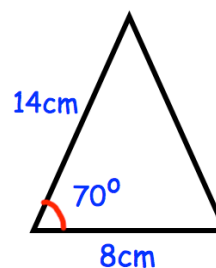
(a)



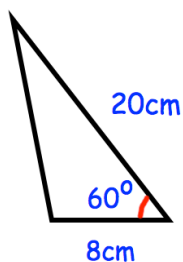
(b)



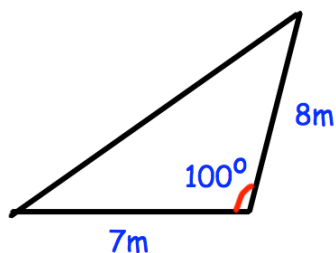
(c)



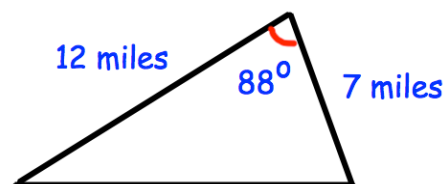
(d)



(e)

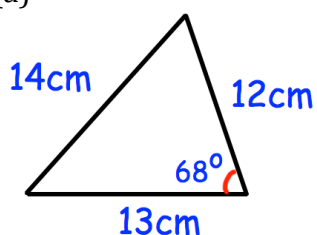


(f)

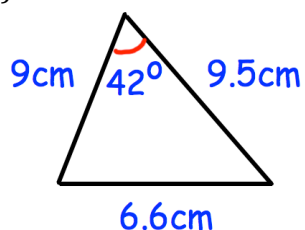


Question 2: Find the area of each of these triangles.

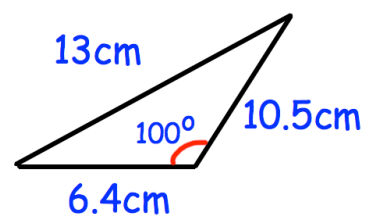
(a)



(b)



(c)



Question 3: Find the area of each of these triangles

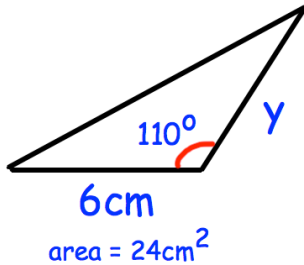
(a) ABC with $AB = 10\text{cm}$, $BC = 9\text{cm}$ and angle $ABC = 44^\circ$.

(b) DEF with $EF = 28\text{cm}$, $DF = 34\text{cm}$ and angle $DFE = 81^\circ$.

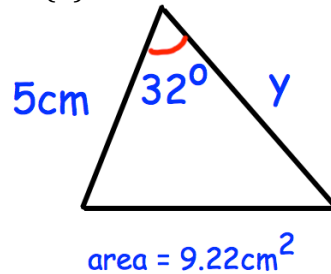
(c) XYZ with $YZ = 9\text{mm}$, $XY = 13\text{mm}$ and angle $XYZ = 121^\circ$.

Question 4: Find the length of the missing side in each of these triangles.
Give each answer to one decimal place.

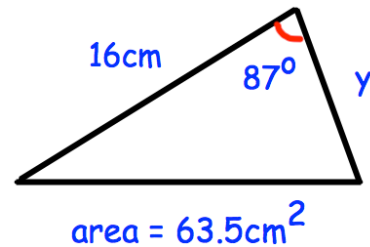
(a)



(b)

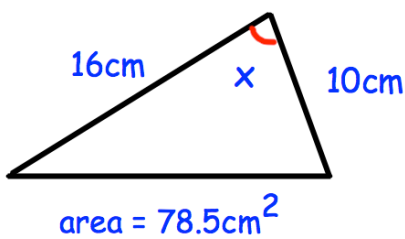


(c)

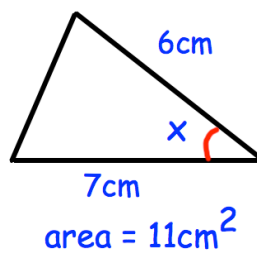


Question 5: Find the size of the missing acute angles below.
Give each answer to one decimal place.

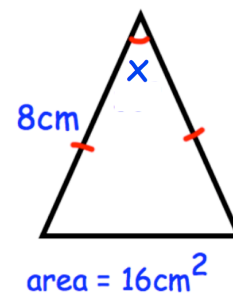
(a)



(b)



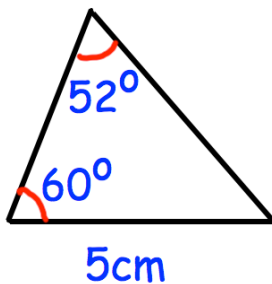
(c)



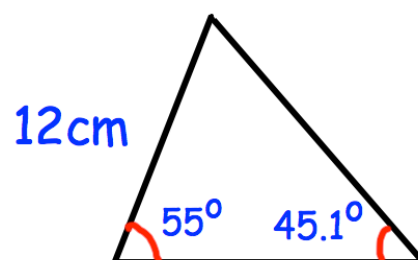
Apply

Question 1: Find the area of these triangles.

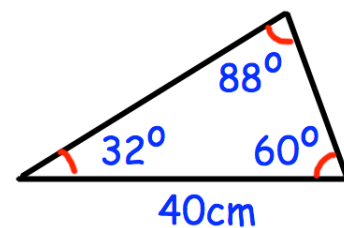
(a)



(b)



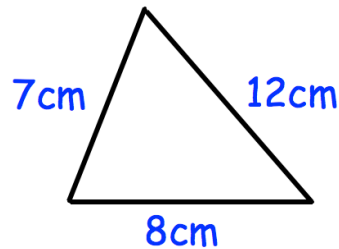
(c)



Trigonometry: Area of any Triangle

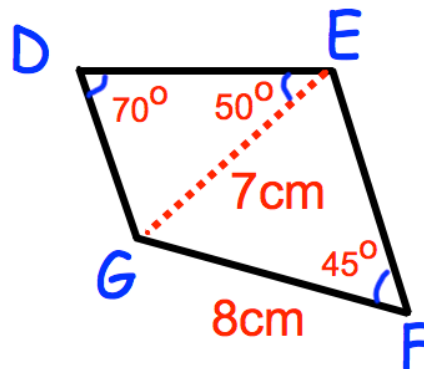
Video 337 on Corbettmaths

Question 2: Find the area of this triangle.



Question 3: A triangular field has three fences. One is 40m long, another is 50m and the other is 60m.
Find the area of the field.

Question 4: Find the area of quadrilateral DEFG.



Question 5: Parallelogram ABCD has side lengths AB = 5cm and BC = 9cm.
Angle BCD = 55°.
Find the area of the parallelogram.

Question 6: Prove the area of any triangle is given by the formula $A = \frac{1}{2}ab\sin C$.

Answers



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