

Maths

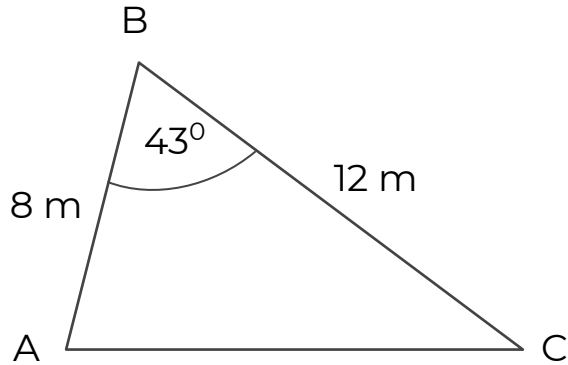
Sine, Cosine and Area Rules – Mixed Problems

Mr Bond



Non right angled triangle problem solving

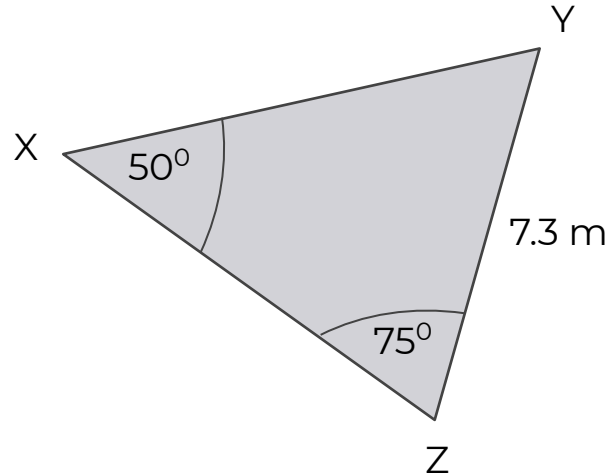
1. Here is a non right angled triangle.



a) Calculate the area of ABC.

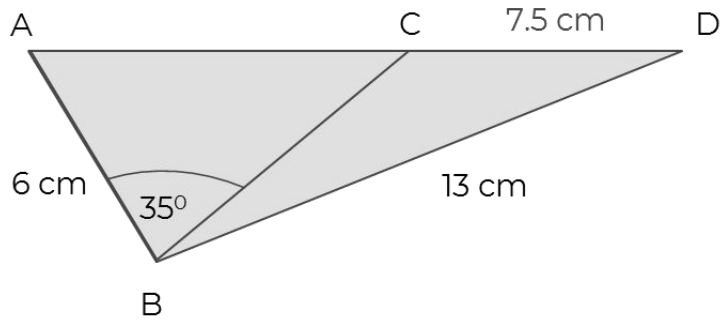
b) Calculate the distance the AC.

2. Calculate the area of the triangle XYZ.



Non right angled triangle problem solving

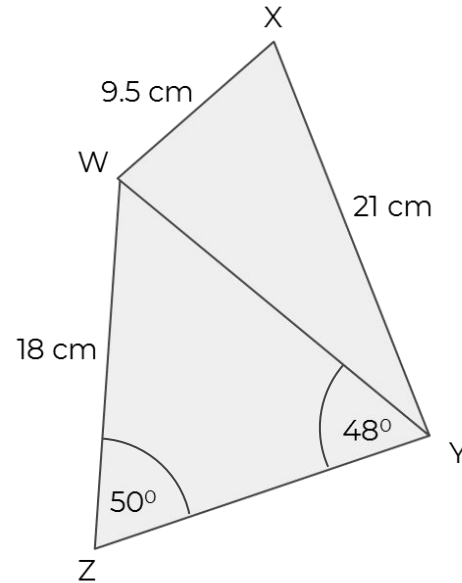
3. The area of triangle ABC is 16.25 cm^2



The area of ABC is 15.5 cm^2 .

- a) Calculate the length of BC.
- b) Calculate angle BCD.

4. Calculate the size of angle XYW.

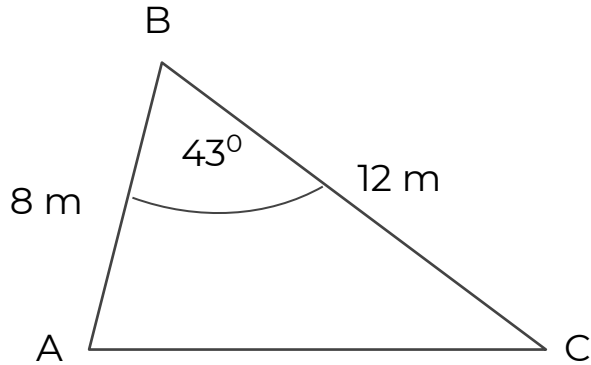


Answers



Non right angled triangle problem solving

1. Here is a non right angled triangle.



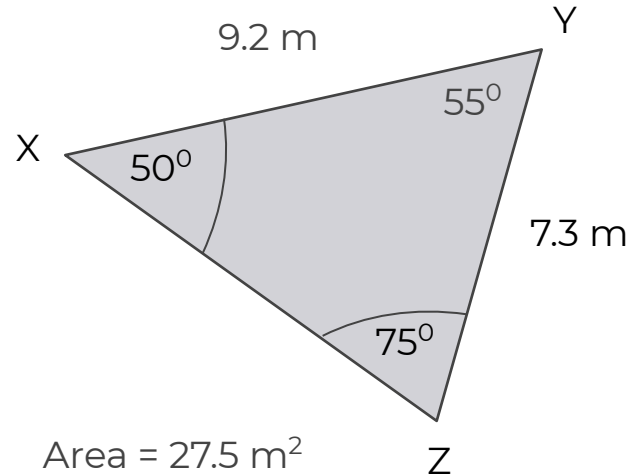
a) Calculate the area of ABC.

$$32.7 \text{ m}^2$$

b) Calculate the distance the AC.

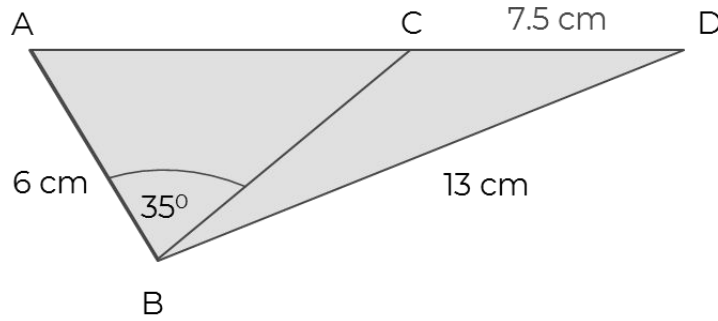
$$8.2 \text{ m}$$

2. Calculate the area of the triangle XYZ.



Non right angled triangle problem solving

3. The area of triangle ABC is 16.25 cm^2



The area of ABC is 15.5 cm^2 .
Calculate the length of BC. 9 cm

a)

b) Calculate angle BCD. 103.6°

4. Calculate the size of angle XYW.

