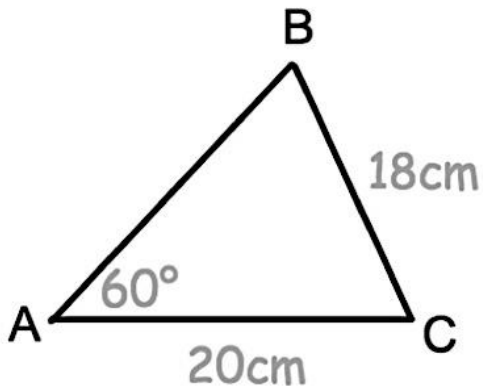


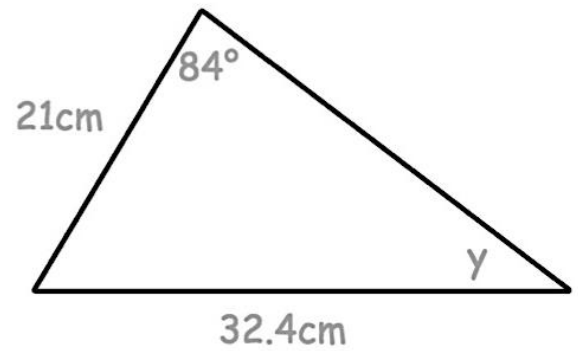


Using Trigonometry - Questions

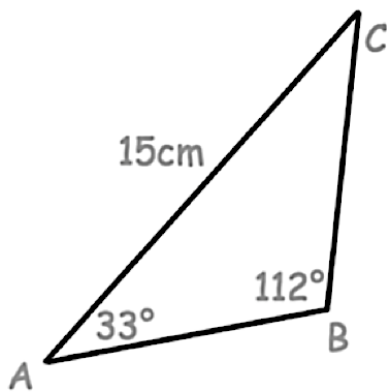
Q1) a) Calculate the size of angle ABC.



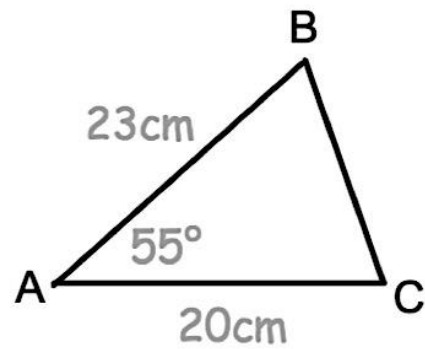
b) Calculate the size of angle y.



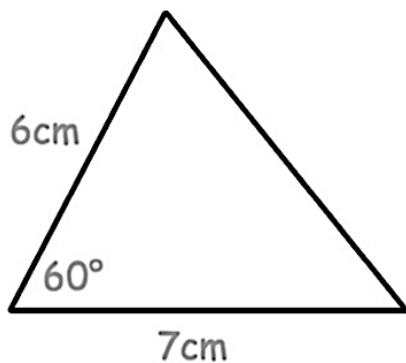
Q2) a) Calculate the length of BC.



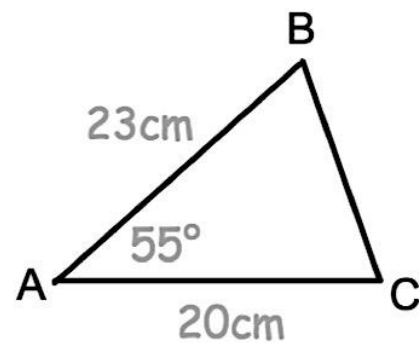
b) Calculate the length of BC.



Q3) a) Calculate the area of the triangle.

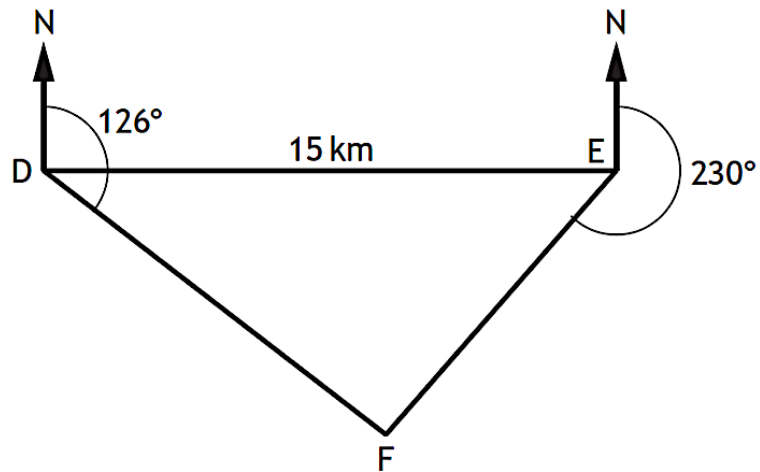


b) Calculate the area of the triangle.





Q4) In the diagram below D, E and F represent the position of Dunbridge, Earlsford and Fairtown respectively.



Dunbridge is 15 kilometres west of Earlsford.

From Dunbridge, the bearing of Fairtown is 126° .

From Earlsford the bearing of Fairtown is 230° .

Calculate the distance between Dunbridge and Fairtown.



Using Trigonometry - Solutions

Q1) a) $ABC = 74^\circ$

b) $y = 40.1^\circ$

Q2) a) $a = 8.8 \text{ cm}$

b) $a = 19.1 \text{ cm}$

Q3) a) Area = 18.2 cm^2

b) Area = 188.4 cm^2

Q4) Distance = 9.9 km