

SOHCAHTOA Trigonometry Past Paper Questions Edexcel Maths IGCSE
Higher- Calculator

1.

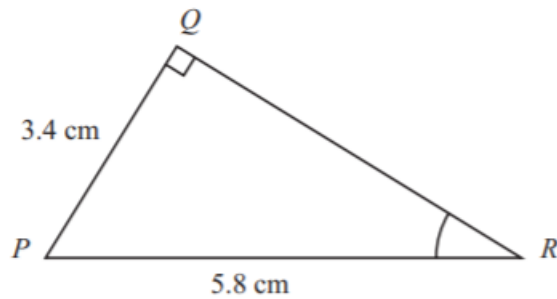


Diagram NOT
accurately drawn

Triangle PQR has a right angle at Q .

$PQ = 3.4$ cm and $PR = 5.8$ cm.

- (a) Work out the size of angle QRP .
Give your answer correct to 1 decimal place.

.....
(3)

2.

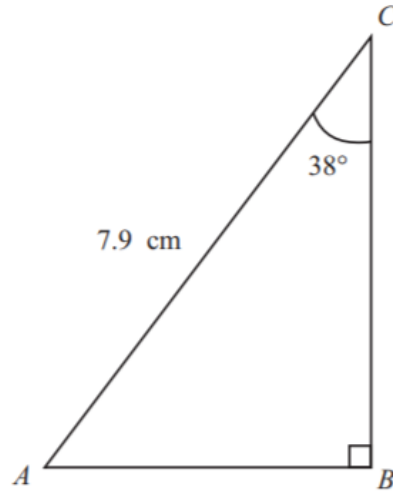


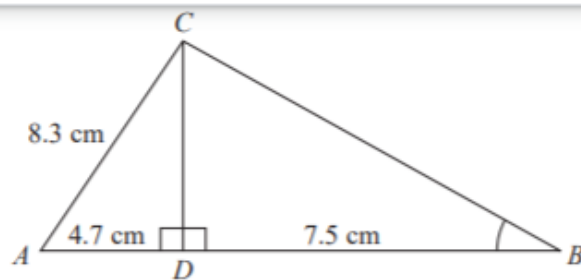
Diagram **NOT** accurately drawn

ABC is a triangle.
 $AC = 7.9$ cm
 Angle $B = 90^\circ$
 Angle $C = 38^\circ$

- (a) Calculate the length of BC .
 Give your answer correct to 3 significant figures.

..... cm
 (3)

3.

Diagram NOT
accurately drawn

The diagram shows triangle ABC .

D is the point on AB , such that CD is perpendicular to AB .

$AC = 8.3$ cm.

$AD = 4.7$ cm.

$BD = 7.5$ cm.

Calculate the size of angle ABC .

Give your answer correct to 1 decimal place.

(Total for Question 17 is 4 marks)

4.

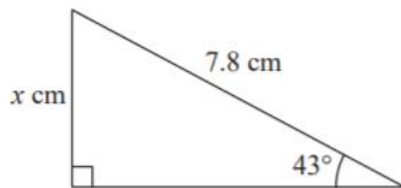


Diagram **NOT**
accurately drawn

Work out the value of x .
Give your answer correct to 3 significant figures.

$x = \dots\dots\dots$

(Total for Question 4 is 3 marks)

5.

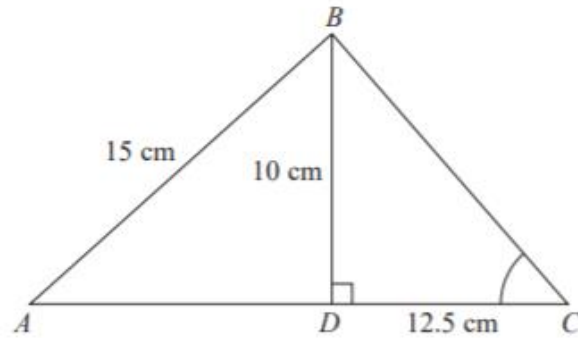


Diagram **NOT**
accurately drawn

ABC is a triangle.
The point D lies on AC .
Angle $BDC = 90^\circ$
 $BD = 10$ cm, $AB = 15$ cm and $DC = 12.5$ cm.

- (a) Calculate the length of AD .
Give your answer correct to 3 significant figures.

..... cm
(3)

- (b) Calculate the size of angle BCD .
Give your answer correct to 1 decimal place.

.....
/ 3 \

6.

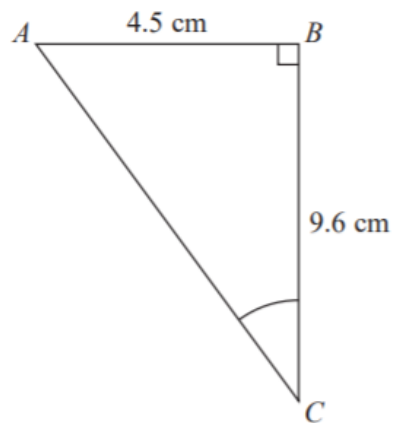
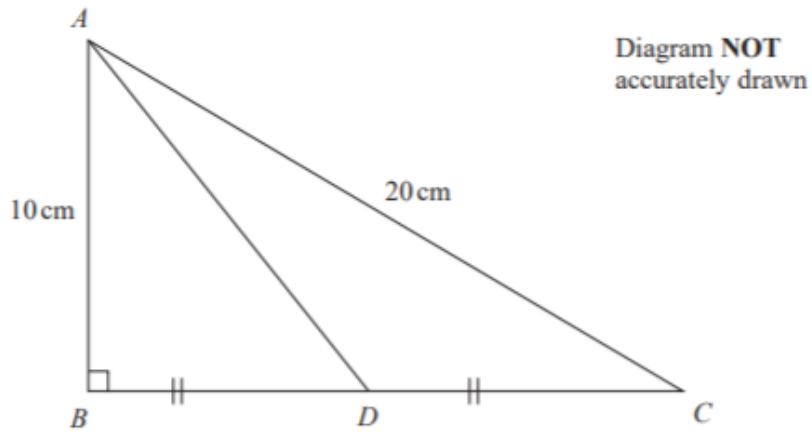


Diagram **NOT**
accurately drawn

Work out the size of angle ACB .
Give your answer correct to 1 decimal place.

.....
(Total for Question 6 is 3 marks)

7.



Angle $ABC = 90^\circ$
 $AC = 20 \text{ cm}$
 $AB = 10 \text{ cm}$

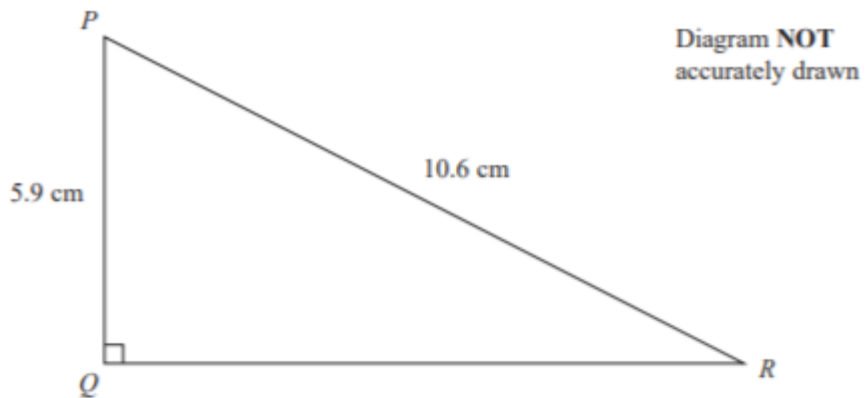
D is the midpoint of BC .

Work out the length of AD .
 Give your answer correct to 1 decimal place.

..... cm

(Total for Question 7 is 4 marks)

8.



- (a) Work out the length of QR .
Give your answer correct to 3 significant figures.

_____ cm
(3)

- (b) Work out the size of angle PRQ .
Give your answer correct to 1 decimal place.

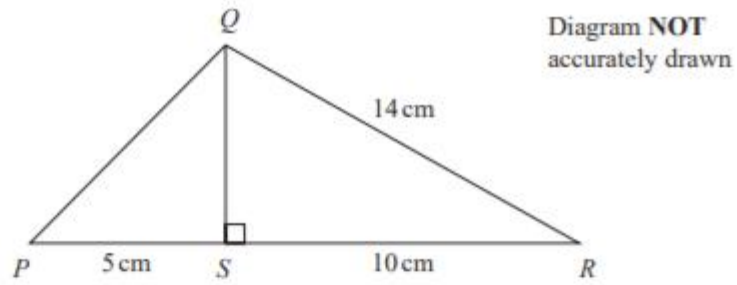
_____ °
(3)

The length of a line is 12.4 cm correct to one decimal place.

- (c) Write down the upper bound for the length of the line.

_____ cm
(1)

9.



In triangle PQR ,

S is the point on PR such that angle $RSQ = 90^\circ$

$RQ = 14$ cm

$RS = 10$ cm

$SP = 5$ cm

Work out the length of PQ .

cm

(Total for Question 9 is 4 marks)

10

10 Here is triangle ABD .

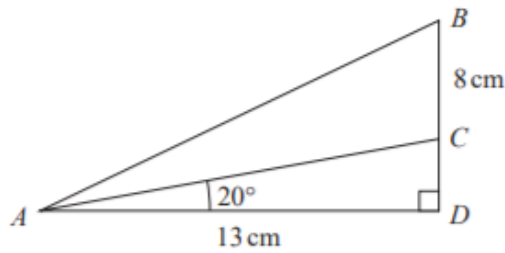


Diagram **NOT** accurately drawn

The point C lies on BD .

$AD = 13$ cm $BD = 8$ cm angle $ADB = 90^\circ$ angle $CAD = 20^\circ$

Calculate the size of angle BAC .

Give your answer correct to 1 decimal place.

(Total for Question 10 is 5 marks)