

Pythagoras Theorem

21 marks

1.

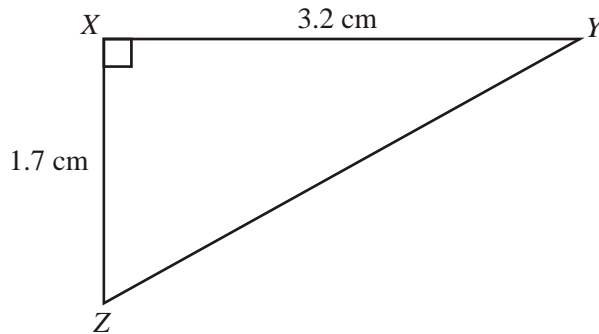


Diagram **NOT** accurately drawn

XYZ is a right-angled triangle.

$XY = 3.2$ cm.

$XZ = 1.7$ cm.

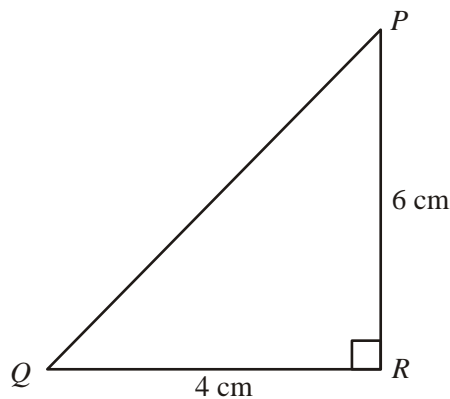
Calculate the length of YZ .

Give your answer correct to 3 significant figures.

..... cm
(Total 3 marks)

2.

Diagram **NOT** accurately drawn



PQR is a right-angled triangle.

$PR = 6$ cm.

$QR = 4$ cm.

Work out the length of PQ .

Give your answer correct to 3 significant figures.

.....cm
(Total 3 marks)

3.

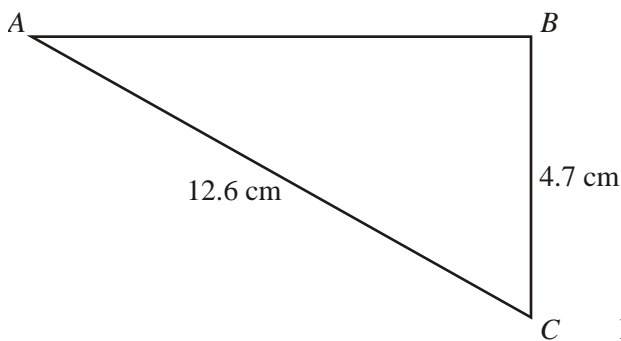


Diagram **NOT** accurately drawn

$AC = 12.6$ cm.
 $BC = 4.7$ cm.
 Angle $ABC = 90^\circ$.

Calculate the length of AB .
 Give your answer correct to 3 significant figures.

..... cm
 (Total 3 marks)

4.

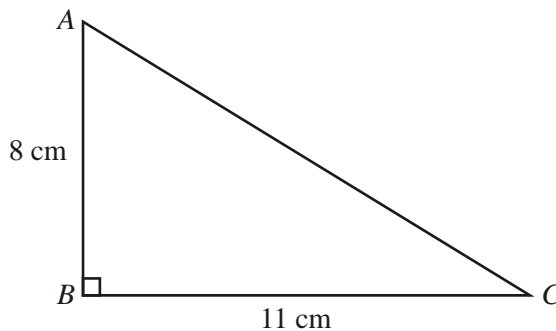


Diagram **NOT** accurately drawn

ABC is a right-angled triangle.

$AB = 8$ cm,
 $BC = 11$ cm.

Calculate the length of AC .
 Give your answer correct to 3 significant figures.

..... cm
 (Total 3 marks)

5.

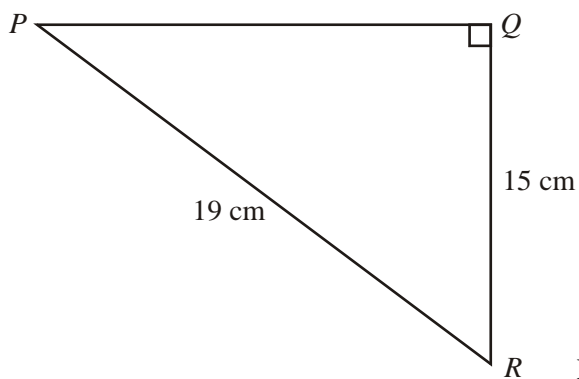


Diagram **NOT** accurately drawn

PQR is a right-angled triangle.
 Angle $PQR = 90^\circ$.
 $QR = 15$ cm.
 $PR = 19$ cm.

Work out the length of PQ .
 Give your answer correct to 3 significant figures.

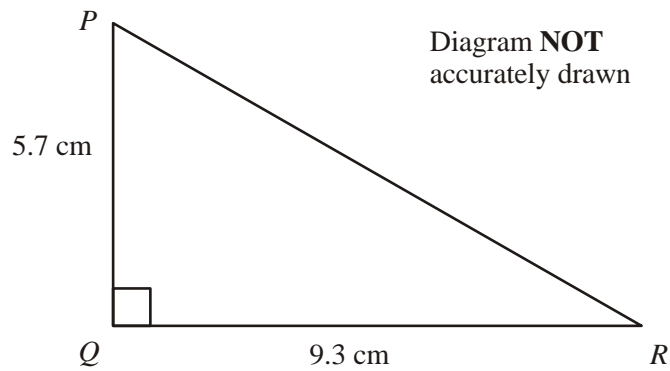
..... cm
 (Total 3 marks)

6. A and B are points on a centimetre grid.
 A is the point $(3, 2)$.
 B is the point $(7, 8)$.

Calculate the distance AB .
 Give your answer correct to 3 significant figures.

..... cm
 (Total 3 marks)

7.



In triangle PQR ,
 $QR = 9.3$ cm.
 $PQ = 5.7$ cm.
Angle $PQR = 90^\circ$.

Calculate the length of PR .
Give your answer correct to 3 significant figures.

..... cm
(Total 3 marks)