

Diagram **NOT**
accurately drawn

ABC is a triangle.

$AB = 8.7 \text{ cm}$.

Angle $ABC = 49^\circ$.

Angle $ACB = 64^\circ$.

Calculate the area of triangle ABC .

Give your answer correct to 3 significant figures.

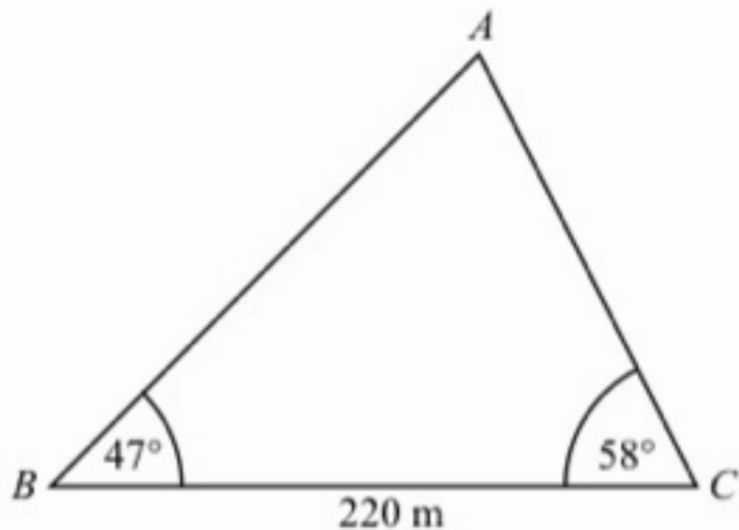


Diagram **NOT**
accurately drawn

Angle $ABC = 47^\circ$

Angle $ACB = 58^\circ$

$BC = 220$ m

Calculate the area of triangle ABC .

Give your answer correct to 3 significant figures.

23.

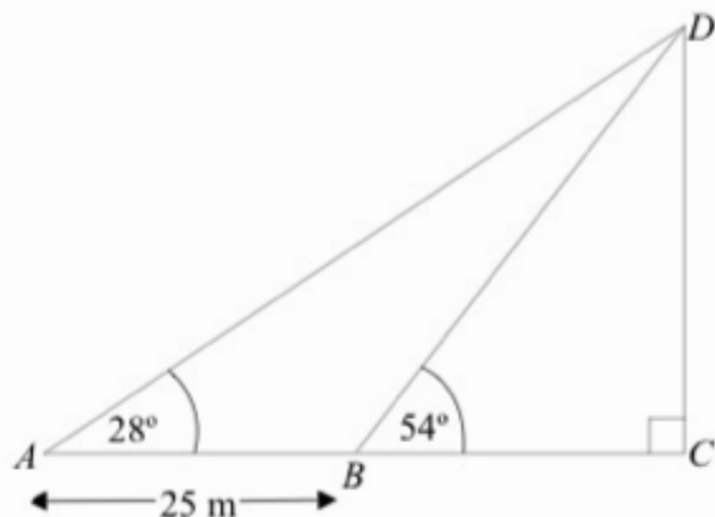


Diagram **NOT**
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The diagram shows a vertical tower DC on horizontal ground ABC .
 ABC is a straight line.

The angle of elevation of D from A is 28° .
The angle of elevation of D from B is 54° .

$AB = 25$ m.

Calculate the height of the tower.
Give your answer correct to 3 significant figures.

24.

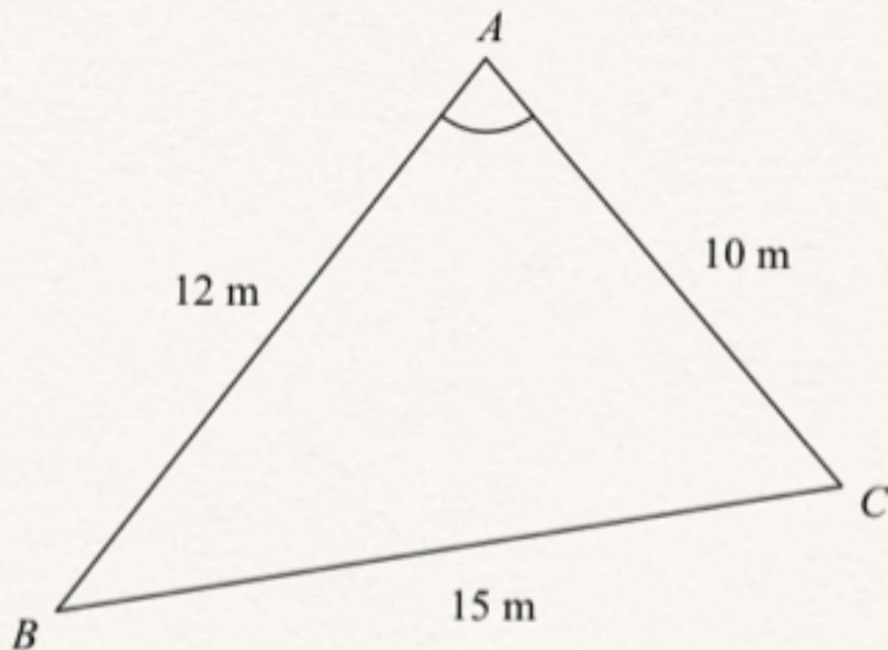


Diagram **NOT**
accurately drawn

ABC is a triangle.

$AB = 12\text{ m}$.

$AC = 10\text{ m}$.

$BC = 15\text{ m}$.

Calculate the size of angle BAC .

Give your answer correct to one decimal place.

25.

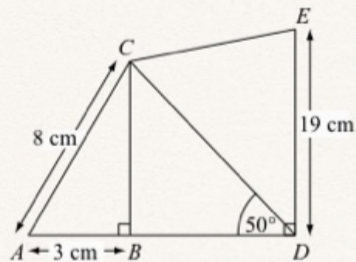


Diagram **NOT**
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$AC = 8 \text{ cm.}$

$AB = 3 \text{ cm.}$

$DE = 19 \text{ cm.}$

Angle $ABC = \text{angle } CBD = \text{angle } BDE = 90^\circ.$

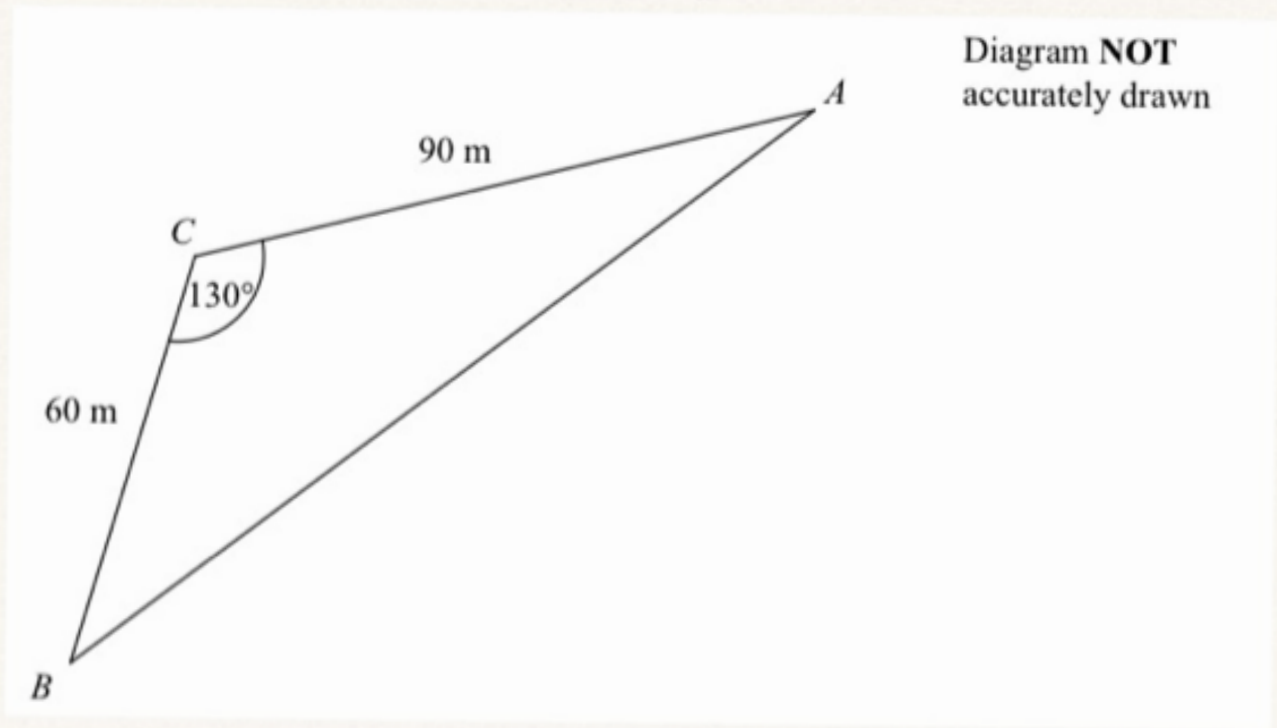
Angle $BDC = 50^\circ.$

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

..... cm
(4)

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

20. Here is a triangle ABC .



$$AC = 90\text{ m.}$$

$$BC = 60\text{ m.}$$

$$\text{Angle } ACB = 130^\circ.$$

Calculate the perimeter of the triangle.

Give your answer correct to one decimal place.

26.

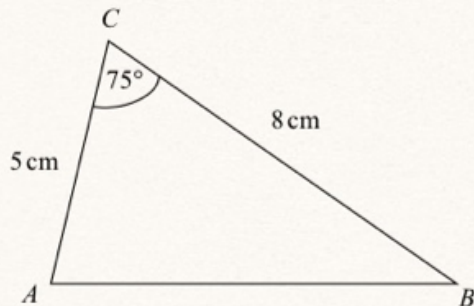


Diagram **NOT**
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In triangle ABC ,

$$AC = 5 \text{ cm.}$$

$$BC = 8 \text{ cm.}$$

$$\text{Angle } ACB = 75^\circ.$$

- (a) Calculate the area of triangle ABC .
Give your answer correct to 3 significant figures.

..... cm^2
(2)

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

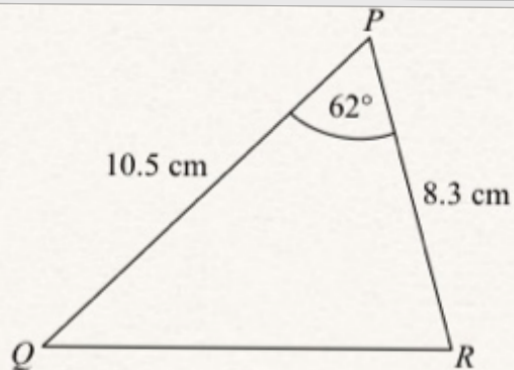


Diagram **NOT**
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In triangle PQR ,

$$PQ = 10.5\text{ cm,}$$

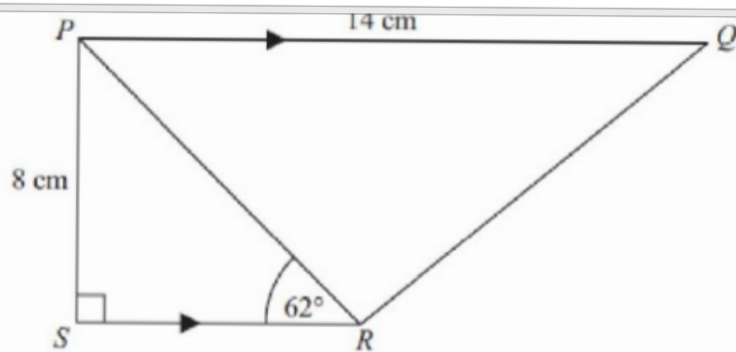
$$PR = 8.3\text{ cm.}$$

$$\text{angle } QPR = 62^\circ.$$

- (a) Calculate the area of triangle PQR .
Give your answer correct to 3 significant figures.

..... cm^2
(2)

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



$PQRS$ is a trapezium.

PQ is parallel to SR .

Angle $PSR = 90^\circ$.

Angle $PRS = 62^\circ$.

$PQ = 14\text{ cm}$.

$PS = 8\text{ cm}$.

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

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

