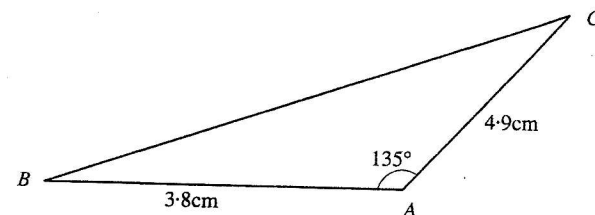


①

The circle has a radius of 4.6 cm and $\hat{JOK} = 100^\circ$. Calculate the area of the shaded region.

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2



In triangle ABC , $\hat{BAC} = 135^\circ$ measured correct to the nearest degree.
 $AC = 4.9$ cm and $AB = 3.8$ cm both measured correct to the nearest mm.

Find correct to three significant figures, the greatest possible area of the triangle ABC .

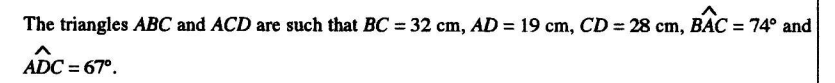
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The diagram shows two triangles ABC and ACD with the common side AC .



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[6]

④

A triangle with vertices P , Q , and R . The side lengths are given as $PQ = 8.2\text{ cm}$, $QR = 7.6\text{ cm}$, and $PR = 12.3\text{ cm}$.

(a) Find the size of \hat{PQR} .

(b) Find the area of triangle PQR .

5

Diagram of triangle GHK . Side $GH = 6.7\text{ cm}$, side $GK = 5.6\text{ cm}$, and the angle at vertex K is 48° .

Given that $GH = 6.7$ cm, $GK = 5.6$ cm and $\hat{GKH} = 48^\circ$, calculate the area of the triangle GHK .

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