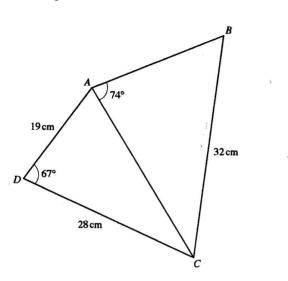
Sine Ruce, CosiNG Ruce & ARED of A Examiner only Arholwr yn unig Ex. 0 Arha yn ua The diagram shows a circle with centre O and chord JK. 0 4.6cm 4.9cm 0(100 135° R 3.8cm Diagram not drawn to scale. Diagram not drawn to scale. In triangle ABC, $\overrightarrow{BAC} = 135^{\circ}$ measured correct to the nearest degree. AC = 4.9 cm and AB = 3.8 cm both measured correct to the nearest mm. The circle has a radius of 4.6 cm and $\widehat{JOK} = 100^\circ$. Calculate the area of the shaded region. Find correct to three significant figures, the greatest possible area of the triangle ABC. ÷ A 10 . [3] [6] Turn over. (0184/8)

3

(184/10)

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



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> * : * !-

> > (184/10)

Diagram not drawn to scale.

The triangles *ABC* and *ACD* are such that *BC* = 32 cm, *AD* = 19 cm, *CD* = 28 cm, \overrightarrow{BAC} = 74° and \overrightarrow{ADC} = 67°. Find the size of \overrightarrow{ABC} .

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[6]

The diagram shows triangle PQR .	Examin only Arholw yn unit	The diagram shows triangle GHK.	Examiner only Arholwr yn unig
$\frac{Q}{P}$ $\frac{12 \cdot 3 \text{ cm}}{12 \cdot 3 \text{ cm}}$ $\frac{P}{P}$ Diagram not drawn to scale. The triangle PQR is such that QR = 7.6 cm, PR = 12.3 cm and PQ = 8.2 cm. (a) Find the size of PQR .	< * * 22	G G G G G G G G G G	
[3] (b) Find the area of triangle PQR.		[6]	· · · · · ·
	(184/	о И(в)	

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