

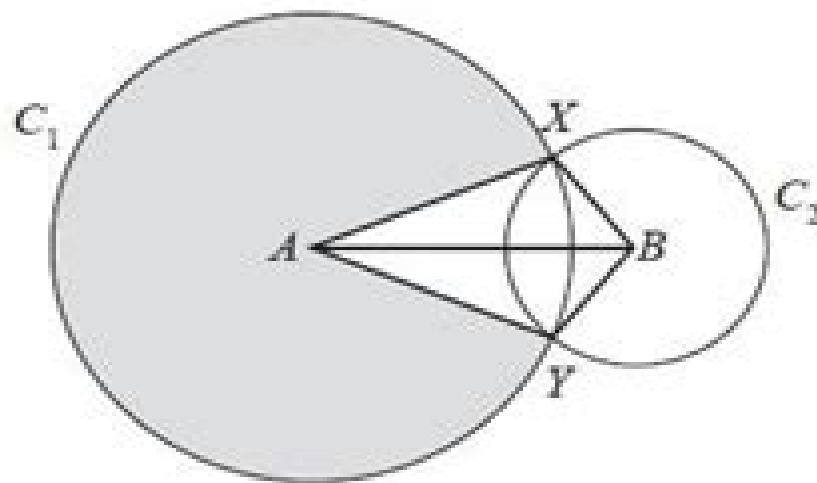


Figure 3

In Figure 3, the points A and B are the centres of the circles C_1 and C_2 respectively. The circle C_1 has radius 10 cm and the circle C_2 has radius 5 cm. The circles intersect at the points X and Y , as shown in the figure.

Given that the distance between the centres of the circles is 12 cm,

- (a) calculate the size of the acute angle XAB , giving your answer in radians to 3 significant figures, (2)
- (b) find the area of the major sector of circle C_1 , shown shaded in Figure 3, (3)
- (c) find the area of the kite $AYBX$. (3)

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