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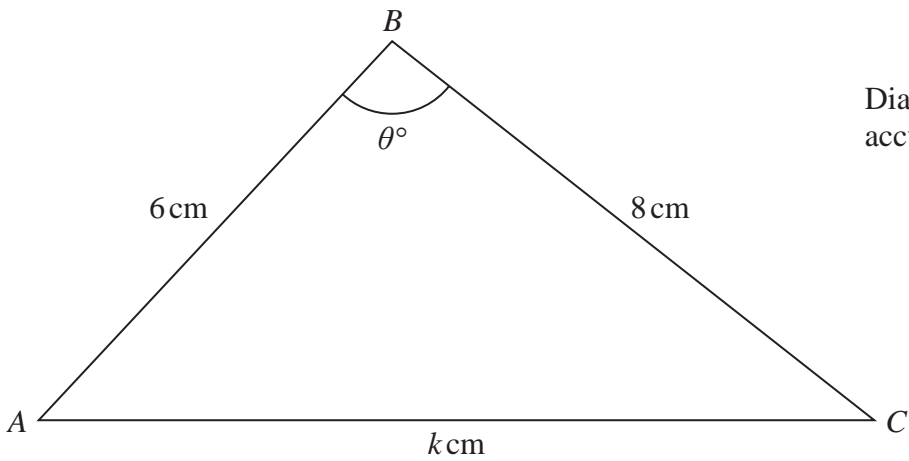


Diagram **NOT** accurately drawn

Figure 2

Figure 2 shows triangle ABC

$AB = 6\text{ cm} \quad BC = 8\text{ cm} \quad AC = k\text{ cm} \quad \angle ABC = \theta^\circ$

- (a) Show that $\cos \theta^\circ = \frac{100 - k^2}{96}$ (2)

The area of triangle ABC is $\sqrt{455}\text{ cm}^2$

- (b) Find the two possible values of k (7)

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Question 7 continued

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Question 7 continued

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Question 7 continued

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(Total for Question 7 is 9 marks)

