

[Maximum mark: 7]

The following diagram shows a right triangle ABC. Point D lies on AB such that CD bisects  $\angle ACB$ .

1

Diagram not to scale



$\angle ACD = \theta$  and  $AC = 14\text{ cm}$

- (a) Given that  $\sin \theta = \frac{3}{5}$ , find the value of  $\cos \theta$ .
- (b) Find the value of  $\cos 2\theta$ .
- (c) Hence or otherwise, find  $BC$ .

[3]

[2]

[2]

Key concept: Trigonometry

$$\cos^2 \theta + \sin^2 \theta = 1$$

$$\begin{aligned}\cos 2\theta &= \cos^2 \theta - \sin^2 \theta \\ &= 2\cos^2 \theta - 1 \\ &= 1 - 2\sin^2 \theta\end{aligned}$$

1 bisects

⇒ divide an angle or a line segment into two halves

(b)

# M5 Matme Speng Tz1

**Roman Wölfel**



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