

Past-paper walk-through

Right-angled triangles ■ E6.2

eXercise

Questions in this set

- 0580/21 J25 Q20 ■ 4 marks

Reading the mark scheme

- **B1** a mark that stands on its own – the point is either made or not.
- **M1** a *method* mark: the right approach, even if the number is wrong.
- **A1** an *answer* mark, and it usually needs its M mark first.
- **C1** a working mark on the way to the answer.
- **//** separates answers the examiner accepts equally.
- **ecf** = error carried forward: a later part is marked on your own earlier answer.
- **owtte** = “or words to that effect” – the wording need not match.

Question 20

0580/21 J25 ■ Q20 ■ 4 marks

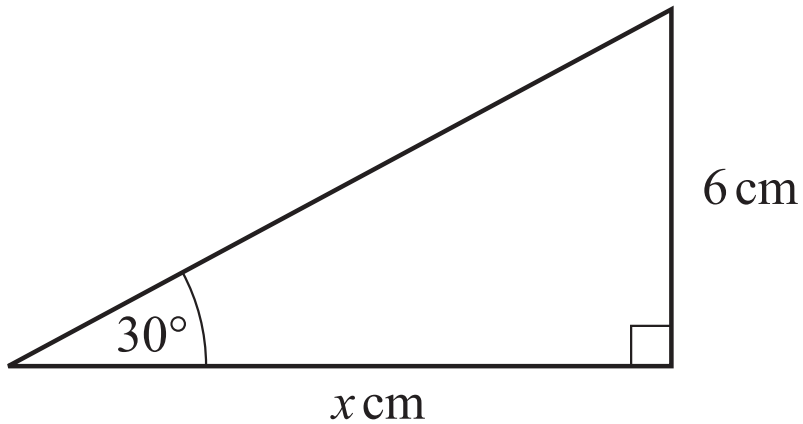
20 6 cm $\times$ cm NOT TO SCALE 30°

Find the exact value of x .

$x =$ [4]

[4]

Question 20



Solution 20

- 6 3 oe
- 4 **B1**
- for $\tan 30 = 1/3$ or
- 3
- 3
- or for
- 3
- $\sin 60$

Solution 20

- 2
- =
- and
- 1
- $\sin 30$
- 2
- = M2
- for
- 6

Solution 20

- $\tan 30$ or
- (
-)
- (
-)
- $6 \sin 60$
- $\sin 30$
- or M1 for 6
- $\tan 30$

Solution 20

- =

- x

- or $\sin 60$

- $\sin 30$

- 6

- =

- x