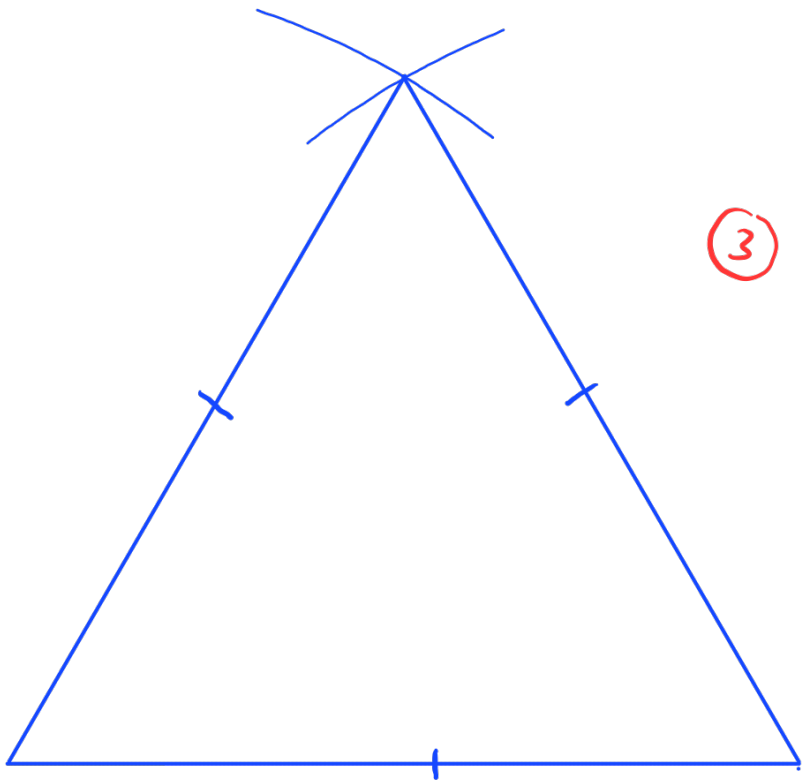
1 An equilateral triangle has side length 16 metres.

Using ruler and compasses only, construct a scale drawing of the triangle.
Use the scale 1 centimetre represents 2 metres.

[3 marks]

Scale: 1 cm represents 2 m



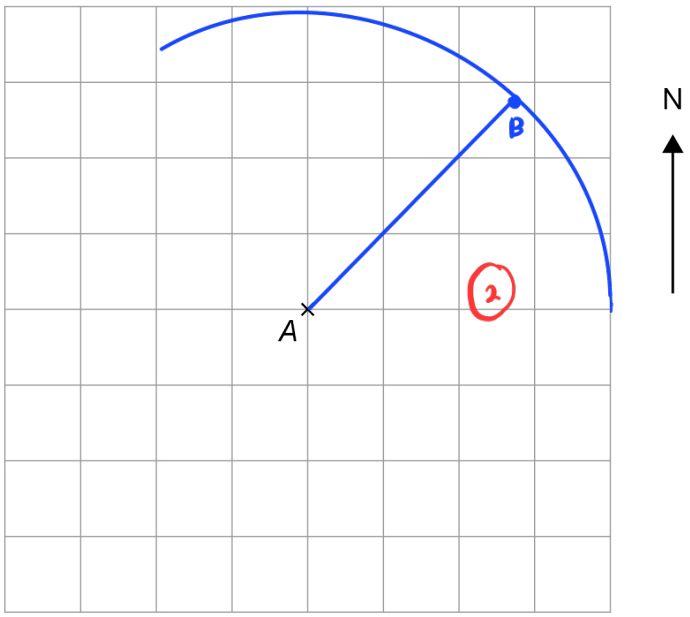
3

2 (a) Point *B* is 400 metres north east of point *A*.

Mark point *B* on the centimetre grid.

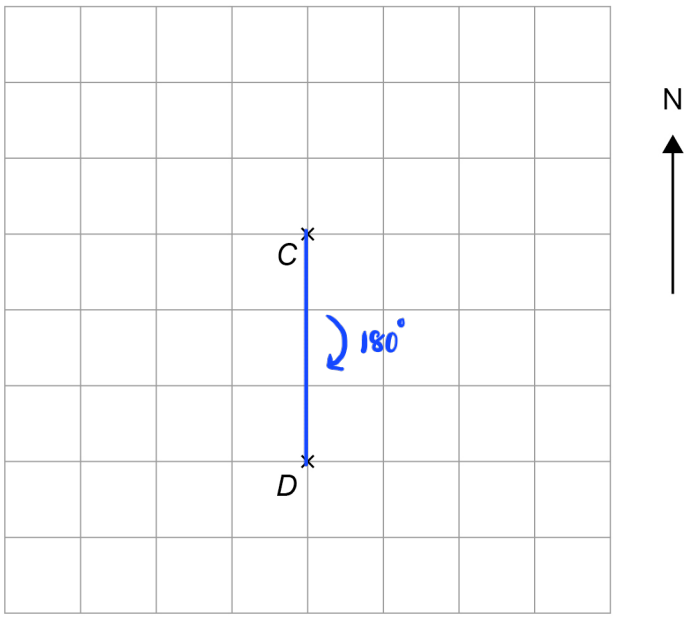
Use a scale of 1 centimetre represents 100 metres.

[2 marks]



Points *C* and *D* are shown on a different centimetre grid.

Scale: 1 : 1000



2 (b) Work out the bearing of *D* from *C*.

[1 mark]

Answer 180 (1) °

2 (c) Work out the actual distance, in metres, of *D* from *C*.

Use the scale 1 : 1000

[1 mark]

3 cm = 3000 cm

3000 ÷ 100 = 30 m

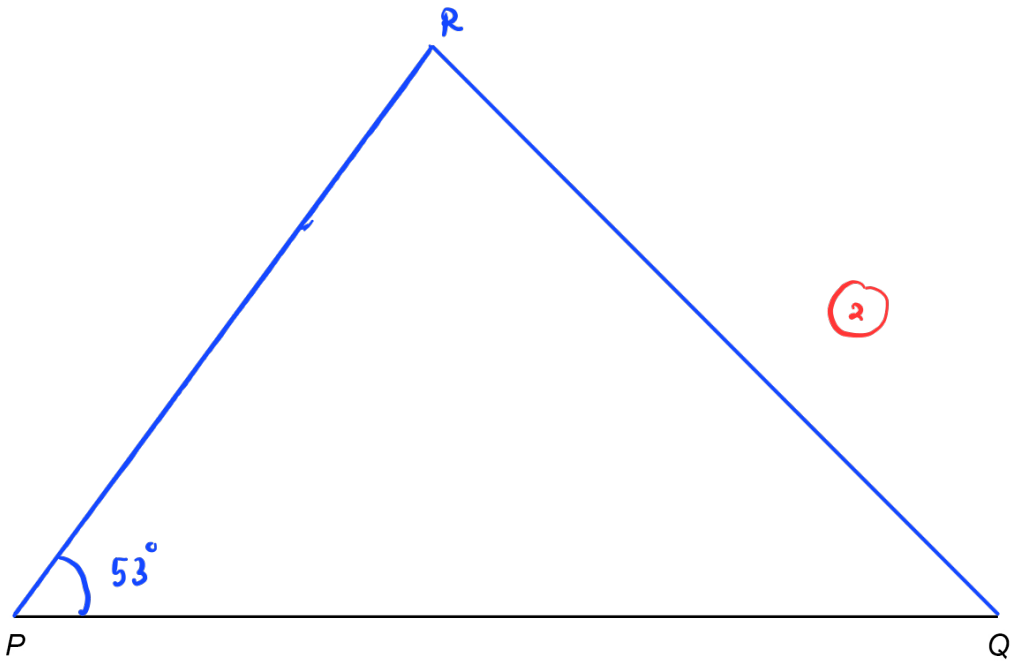
Answer 30 (1) metres

3 (a) Complete an accurate drawing of triangle *PQR* so that

angle *QPR* is 53°

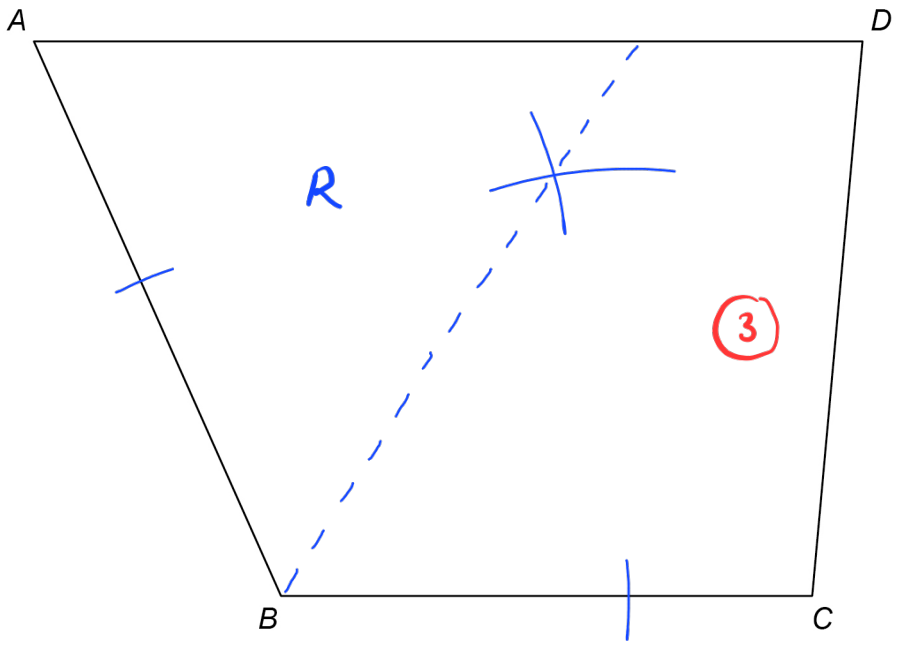
the length of side *PR* is 7.5 cm

[2 marks]



4 Use a ruler and compasses in this question.

ABCD represents a garden.



A tree is to be planted in the garden.

The tree will be in the region that is closer to *AB* than to *BC*.

Label the region, R, where the tree could be planted.

Show all your construction lines.

[3 marks]

5 Quadrilateral *ABCD* has

- angle *ABC* = 90°
- *BC* = 4 cm
- *CD* is parallel to *BA*
- *CD* = 6 cm

Draw *ABCD* on the centimetre grid.

AB has been drawn for you.

[3 marks]