

Geometrical constructions – 2021 O Level Math D

1. Nov/2021/Paper_11/No.6

ABC is a triangle with $AC = 5$ cm and $BC = 7$ cm.

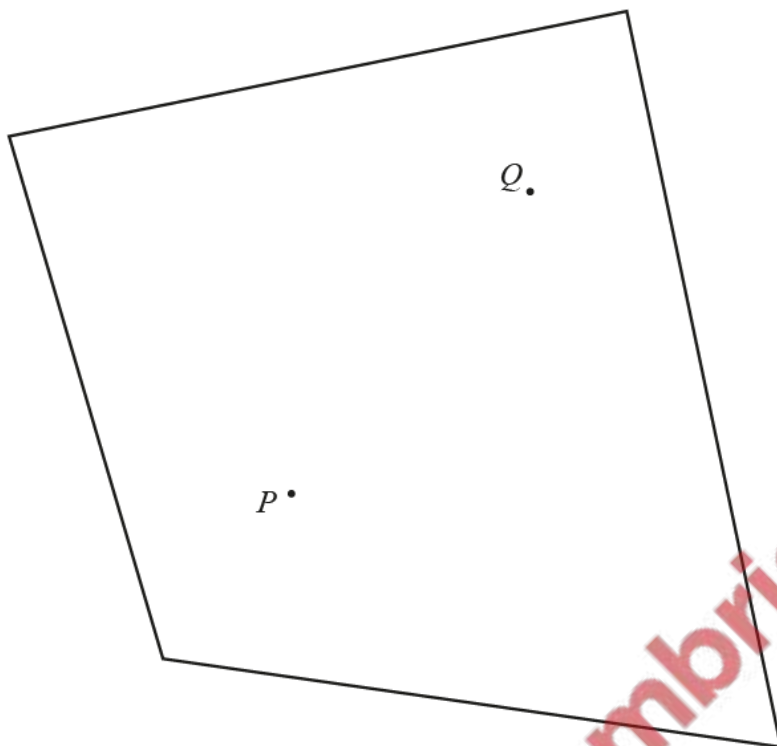
- (a) Using ruler and compasses only, construct triangle ABC .
Side AB has been drawn for you.



- (b) Using a straight edge and compasses only, construct the perpendicular bisector of AB . [2]
- (c) A point W lies inside triangle ABC .
The point W is closer to A than to B . [2]

On your diagram, shade the region in which W lies. [1]

The scale drawing shows a garden with two trees P and Q .
The scale is 1 centimetre represents 6 metres.



Scale: 1 cm to 6 m

- (a) The garden has a path that is equidistant from P and Q .

Using a straight edge and compasses only, construct the path.

[2]

- (b) Yuna wants to plant a third tree in the garden that is

- nearer to Q than to P
- and
- more than 18 m from Q .

Shade the regions where Yuna can plant the tree.

[3]