Loci and Construction Exam Practice

Q1. Using a ruler and pair of compasses, construct an equilateral triangle with side length 5 cm. You must show all your construction lines.

| Answer: | |
|---------|--|
| | |

(2 marks)

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Q2. Use ruler and compasses to construct a perpendicular line from point to the line PR. You must show all your construction lines.



Answer:

(2 marks)

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Q3. Ted is planning his garden, which has the following features:

- the boundary fence forms an equilateral triangle ABC of side length 12 m.
- at each vertex, a tree is planted, which casts a circular shadow of diameter 6 m.
- a rose-bush which is to be nearer to vertex A than vertex C, and not in the shadow of any tree.

Using ruler and compasses, and a scale of 1cm = 2m, construct a possible scale model of Ted's garden below.

Answer:

Q4. Use ruler and compasses to construct the bisector of angle STU. You must show all your construction lines.



Answer:

(2 marks)

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