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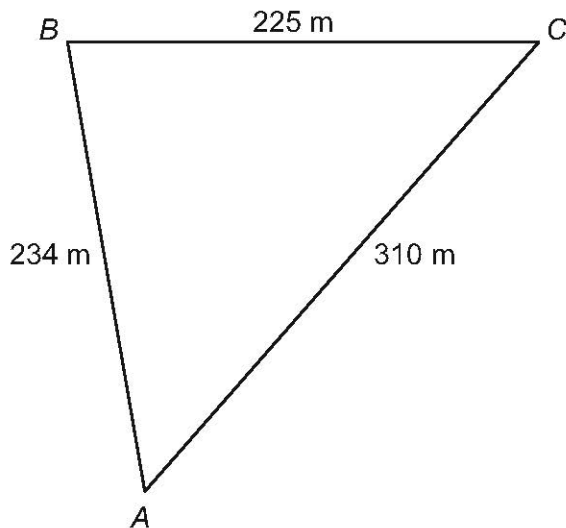
A triangular field of grass,  $ABC$ , has boundaries with lengths as follows:

$$AB = 234 \text{ m}$$

$$BC = 225 \text{ m}$$

$$AC = 310 \text{ m}$$

The field is shown in the diagram below.



7 (a) Find angle  $A$

[2 marks]

7 (b) Farmers calculate the number of sheep they can keep in a field, by allowing one sheep for every  $1200 \text{ m}^2$  of grass.

Find the maximum number of sheep which can be kept in the field  $ABC$

[3 marks]