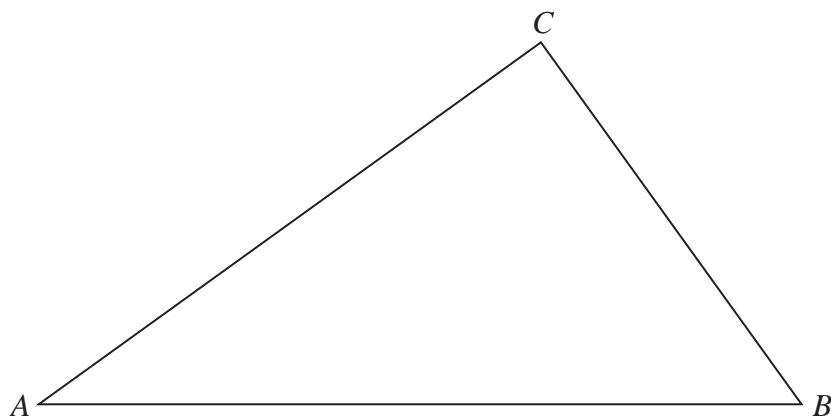


27



The diagram shows the triangle ABC .

(a) **Showing all of your construction lines**, construct

- (i) the perpendicular bisector of AC ,
 - (ii) the locus of all points inside the triangle that are equidistant from AC and AB .
- (4)

The region R consists of all the points inside the triangle that are closer to AB than to AC , closer to C than to A and more than 5 cm from B .

(b) Show, by shading, the region R .
Label the region R .

(2)

(Total for Question 27 is 6 marks)

