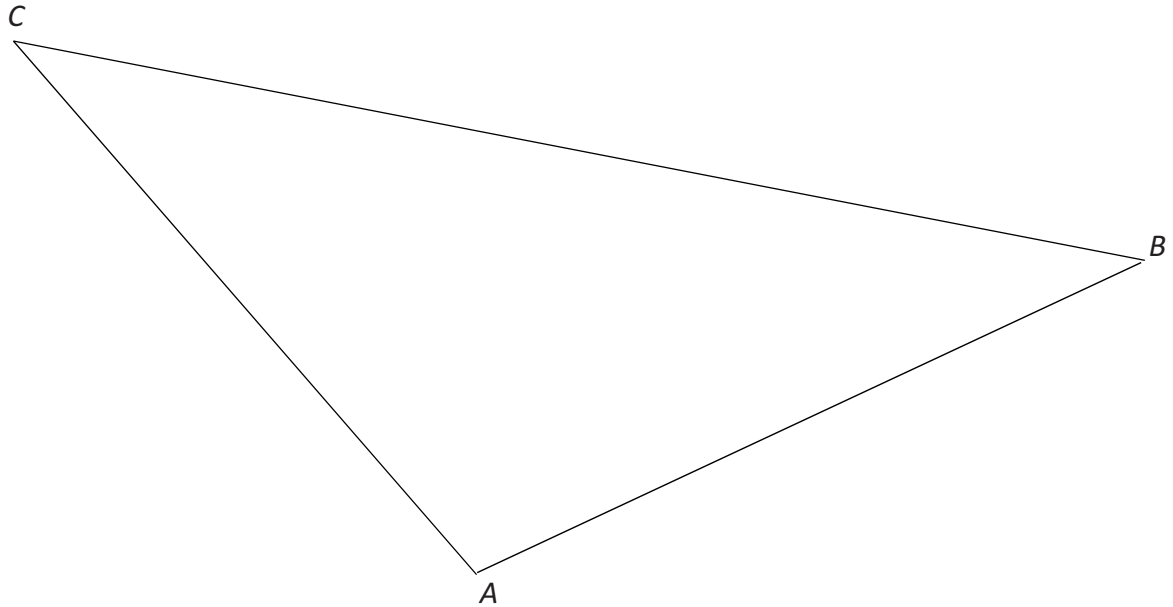


Question 5

(25 marks)

- (a)** Construct and **label** the orthocentre of the triangle ABC in the diagram below. Show any construction lines or arcs clearly.



- (b) In the diagram below O is the centre of circle s . $[AB]$ is a diameter of s .
 BE is a tangent to s at point B .
 $[CD]$ is a chord of circle s .
 $|CD| = \frac{1}{2}|AB|$ and CD is parallel to AB .
 Find, with justification, $|\angle BEA|$.

