



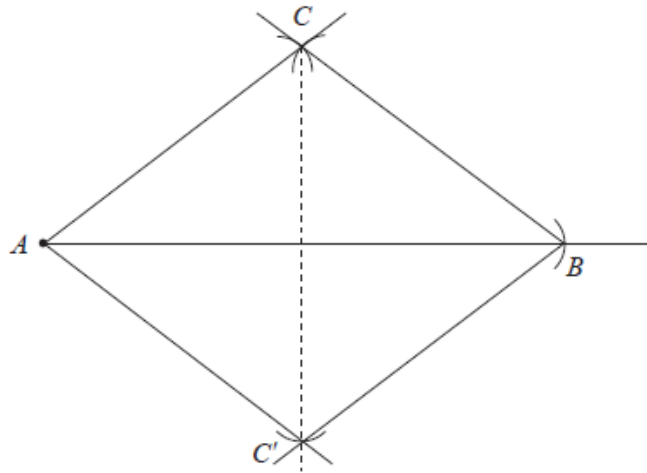
Maths
Leaving Certificate
Ordinary Level

Past Exam Questions
Marking Scheme on
Geometry

Q6 2013 Paper 2

Question 6A

- (a) Construct the triangle ABC such that $|AB| = 8$ cm, $|BC| = |AC| = 5$ cm. The point A is given to you.



- (b) On the same diagram, construct the image of the triangle ABC under the axial symmetry in AB .
- (c) Justify the statement “ $AC'BC$ is a parallelogram” where C' is the image of C under the axial symmetry in AB .

The diagonals $[AB]$ and $[CC']$ of $AC'BC$ bisect one another.

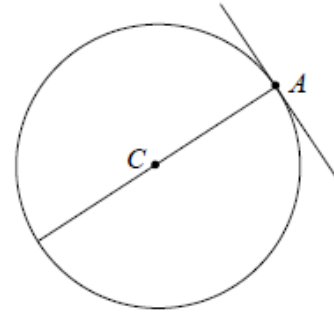
Hence, $AC'BC$ is a parallelogram.

Question 6A

- (a) (i) Write down a geometrical result that can be used to construct a tangent to a circle at a point.

The tangent is perpendicular to the radius at the point of contact

- (ii) On the diagram shown, construct the tangent to the circle at A .



- (b) Construct the circumcentre and circumcircle of the triangle below, using only a straight edge and compass. Show all construction marks clearly.

