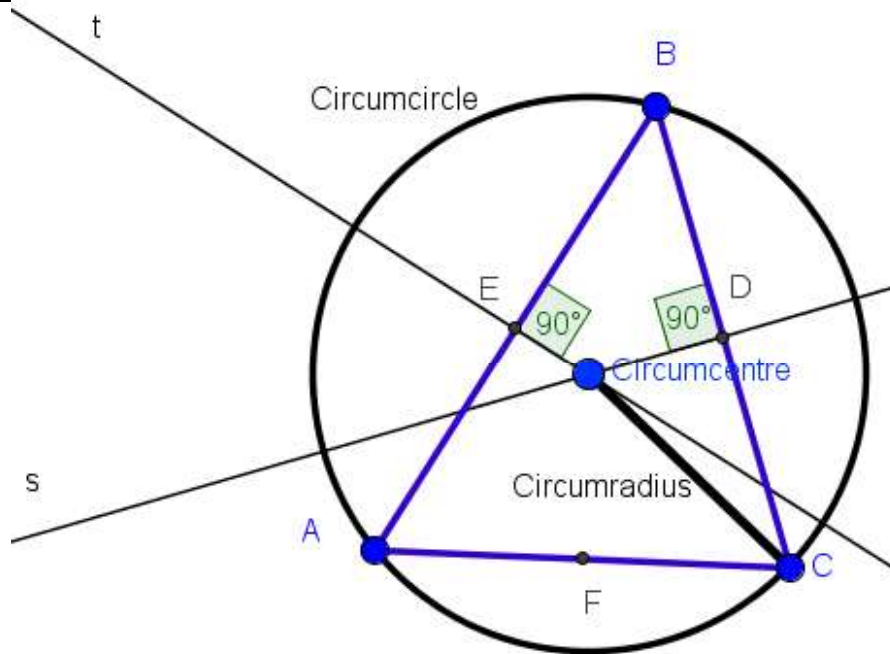


Student Activity Construction 16

Use in connection with interactive file "Constr 16" on the Student's CD.

Construction 16: To construct a circumcentre and circumcircle of a given triangle, using only straight edge and compass.



1. Name the mid points of the line segments AB, BC and AC.

2. What is the relationship between side AB and line t?

3. What is the relationship between side BC and line s?

4. Name the perpendicular bisectors of AB and BC.

5. What is the name of the point where the two perpendicular bisectors meet?

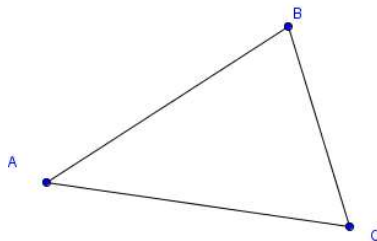
6. Name the circle whose radius is the same distance from all of the vertices of the triangle to the circumcentre?

7. Name 3 line segments (not all shown in the interactive file) that can be known as a circumradius of the circumcircle in the interactive file.

8. Move the points A, B or C and describe what happens.

9. Describe how to find the circumcentre of a triangle and draw the circumcircle of a triangle.

10. Find the circumcircle of the following triangle. List construction steps.



11. The organisers of a race, where the track is circular, want to locate a position for their first aid station, so that the station is equidistant from each point on the track. Advise them how to do this.
