Name:	Key
Date:	Period:

NOTE: For <u>every</u> construction that you do, you <u>MUST</u> leave the work, arcs, marks, etc. that you make along the way to earn full credit. Do <u>NOT</u> erase anything at the end of the problem to make your construction "look better."

1. Goal: Construct a circumscribed circle.

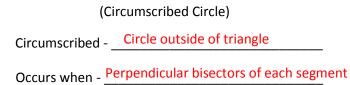
## Helpful steps

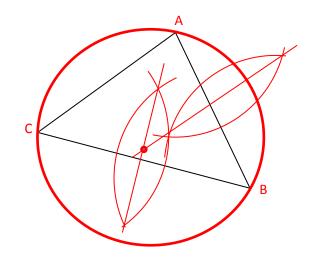
- 1. Label given triangle ABC
- 2. Draw the perpendicular bisector of AB
- 3. Draw the perpendicular bisector of BC
- 4. Where the bisectors intersect, create O
- 5. With compass on O, set its width to C and draw a circle

2. Goal: Construct an inscribed circle.

## Helpful steps

- 1. With compass on a vertex, draw arc across each leg
- 2. From each intersection, draw an arc on the interior of the triangle
- 3. Draw angle bisector line
- 4. Repeat for one of the other vertices
- 5. Mark incenter where two lines intersect
- 6. From incenter to one side of triangle, set width of compass
- 7. Draw a circle





(Inscribed Circle)

