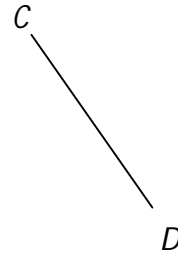
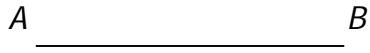


Geometry – Constructions

Assignment #13

1. Construct the perpendicular bisector of segments AB and CD and construct two equilateral triangles for each:

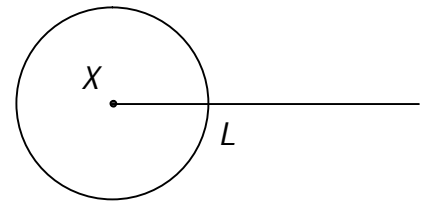
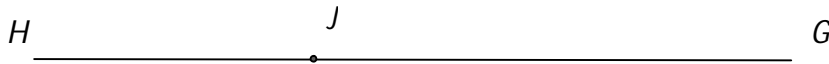


2. Construct the perpendicular line to the segment through the specified point:

a. Point J

b. Point K

c. Point L

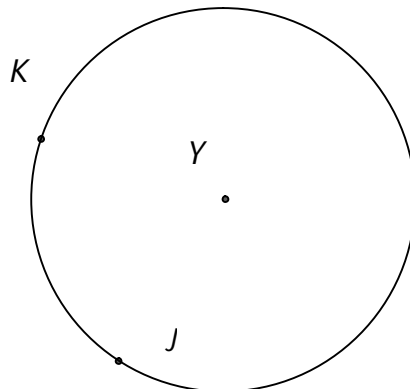


3. Construct the tangent line(s) to Circle Y through the specified point:

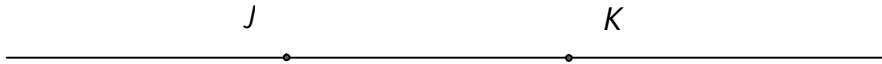
a. Point J

b. Point K

c. Point L

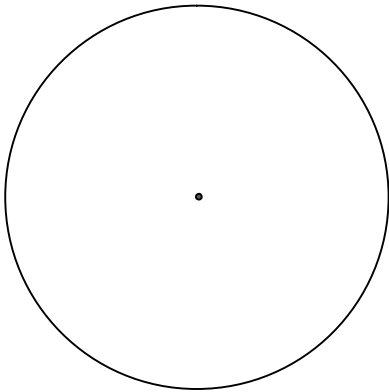


4. Construct a square with line segment JK and name the other vertices M and N . Construct a rectangle by extending sides \overline{JK} and \overline{MN} until the lengths are equal to the length of the square's diagonal.

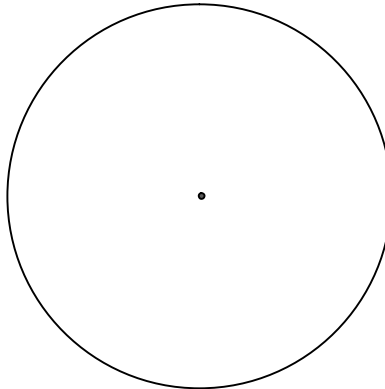


5. Construct each of the following inscribed polygons (all vertices on the circle) using a circle:

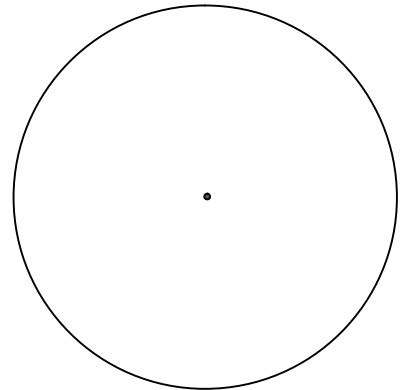
Equilateral Triangle



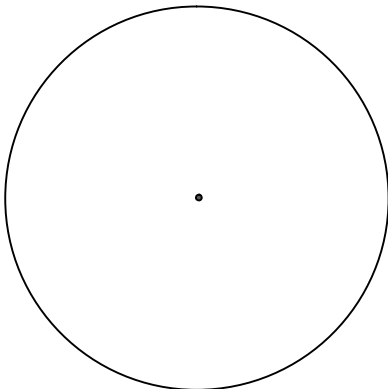
Right Triangle



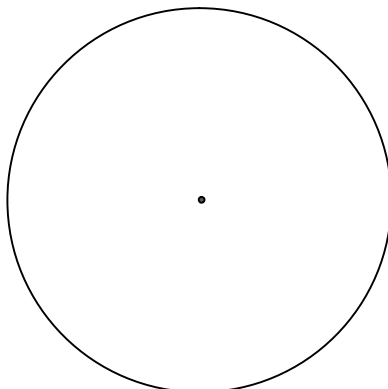
Rectangle



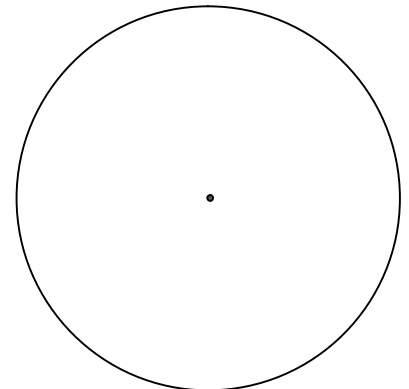
Six-Pointed Star



Regular Hexagon



Regular Octagon



6. **Begin work on a project:** Construct a stained-glass design using any of the constructions that we have used.