

Name: _____

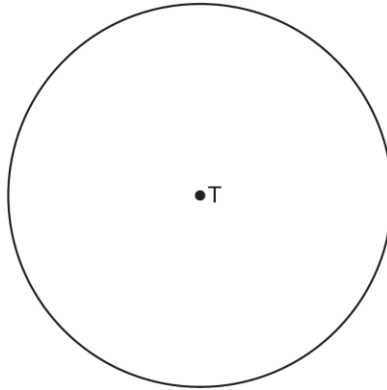
Date: _____

UNIT 1A

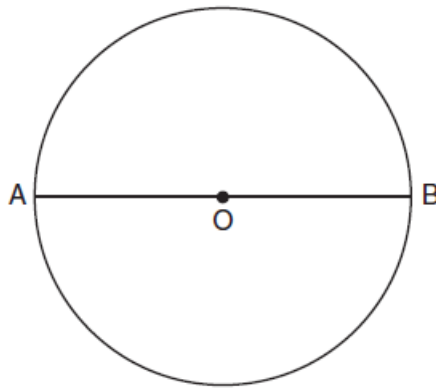
HOMEWORK

HOMEWORK PACKET #2: LESSONS 7-9

1. Use a compass and straightedge to construct an inscribed square in circle T shown below. [Leave all construction marks.]

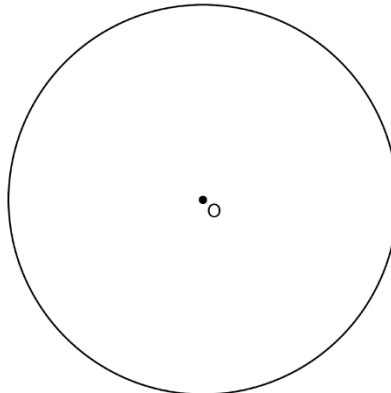


2. The diagram below shows circle O with diameter \overline{AB} . Using a compass and straightedge, construct a square that is inscribed in circle O . [Leave all construction marks.]

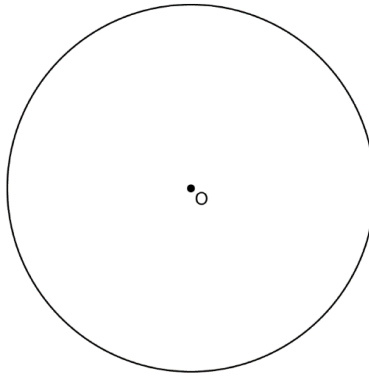


- (B)** Determine the measure of the arc intercepted by two adjacent sides of the constructed square. _____
Explain your reasoning: _____

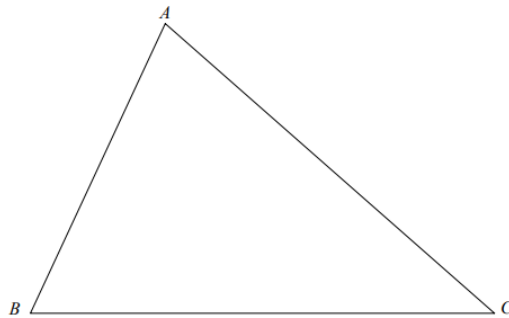
3. Using a compass and straightedge, construct a rectangle inscribed in circle O . [Leave all construction marks.]



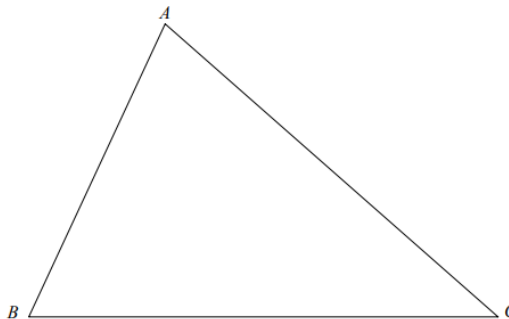
4. Using a compass and straightedge, construct rectangle inscribed in circle O below. Label it $ABCD$. [Leave all construction marks.]



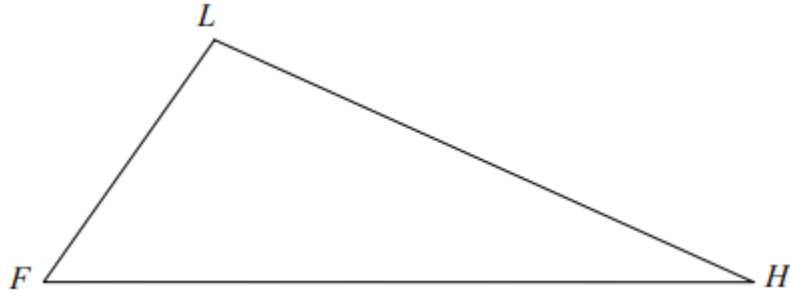
5. Using a compass and straightedge, construct the median to BC . Label it M . [Leave all construction marks.]



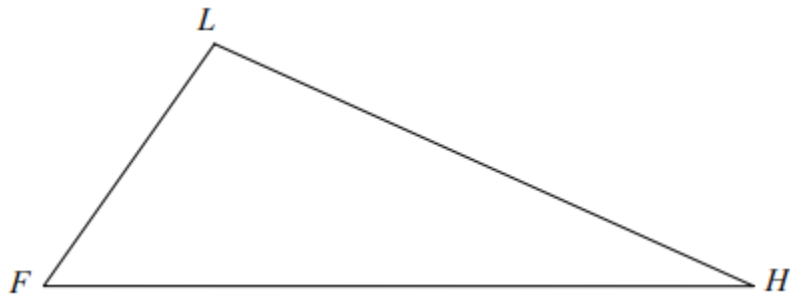
6. Using a compass and straightedge, construct the altitude to BC . Label it T . [Leave all construction marks.]



7. Using a compass and straightedge, construct the median to LH . Label it M . [Leave all construction marks.]



8. Using a compass and straightedge, construct the altitude to FH . Label it A . [Leave all construction marks.]



9. Construct the given types of angles below.

a) 60° angle:

b) 30° angle:

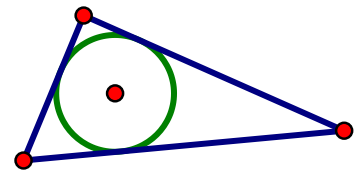
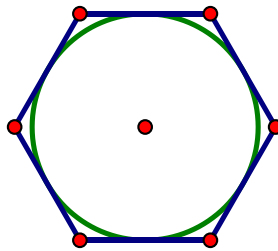
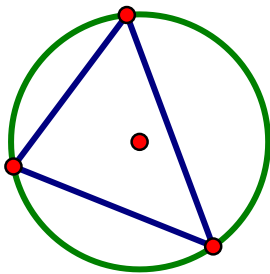
c) 90° angle:

d) 45° angle:

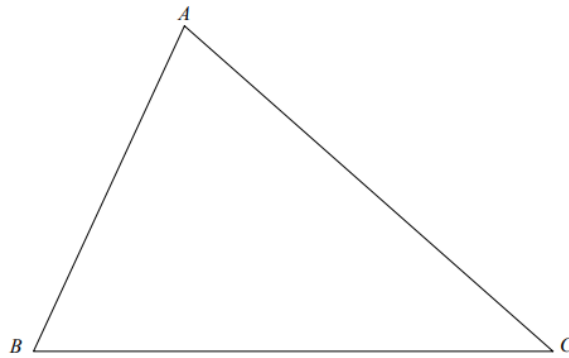
10. Construct a $30^\circ - 60^\circ - 90^\circ$ triangle.

11. Determine whether the relationships is INSCRIBED or CIRCUMSCRIBED.

a) The triangle is _____. b) The hexagon is _____ c) The circle is _____



12. Using a compass and straightedge, construct the incenter of triangle ABC . Label it P . [Leave all construction marks.]



13. Using a compass and straightedge, construct the circumcenter of triangle FLH . Label it P . [Leave all construction marks.]

