Geometry CC – Mr. Valentino

Name: _____

EXAM 2 REVIEW

Date: _____ Period: _____

Copy the following line segment:

Create a line segment **twice** as long as the one below:

1)

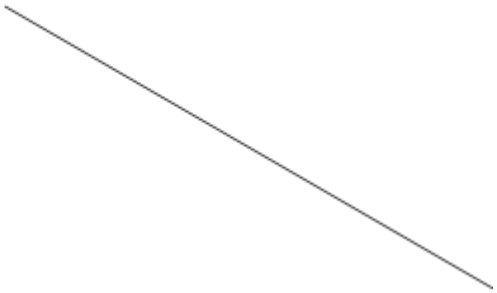
2)

Construct the perpendicular bisector of each.

3)



4)



For #5 - #8, construct a line segment <u>perpendicular</u> to the segment given through the point given.

5)

6)

**Hint!** I would extend this reference line using a straight edge.

7)

8)

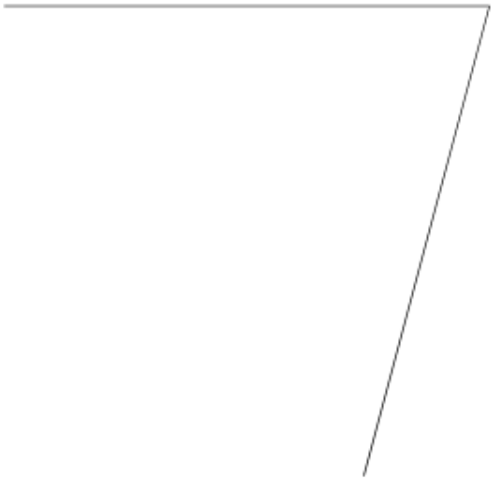
Construct a copy of each angle given.

9)

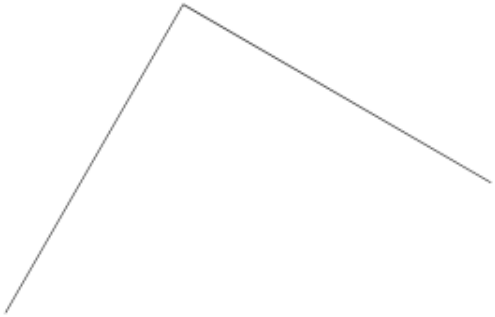
10)

Construct the bisector of each angle.

11)

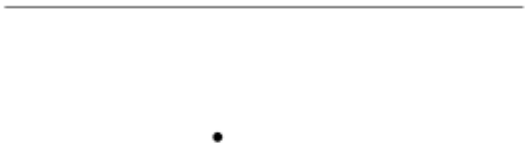


12)



Construct a line segment through the given point parallel to the given line segment.

13)



14)

Construct an equilateral triangle on each of the segments.

15)



16)



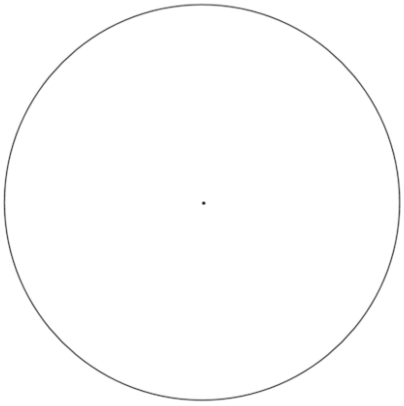
Construct two different sized hexagons in the spaces below.

17)

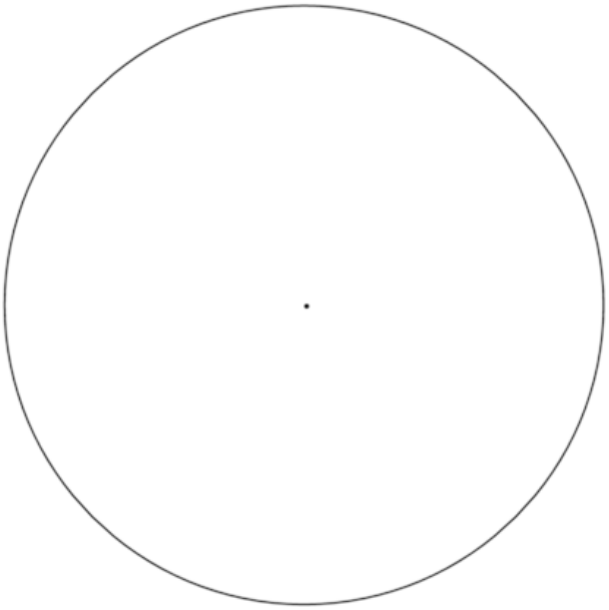
18)

Construct an equilateral triangle inscribed in the circle.

19)

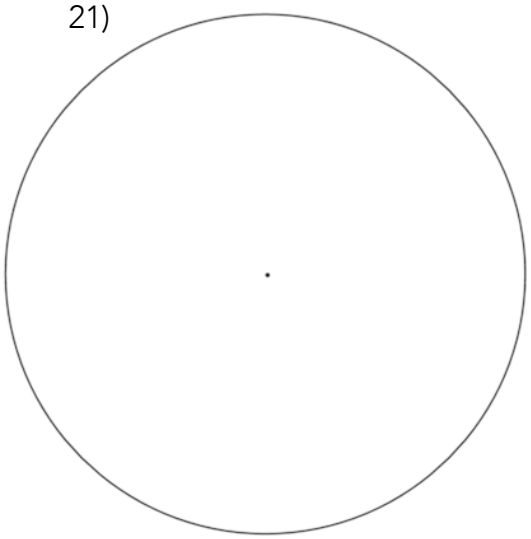


20)

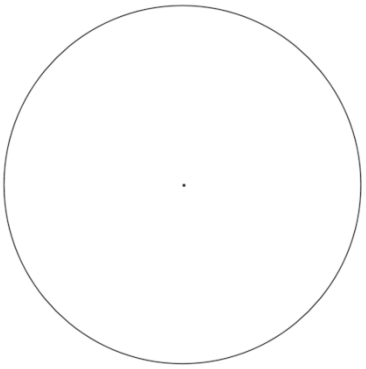


Construct a square inscribed in the circle.

21)



22)

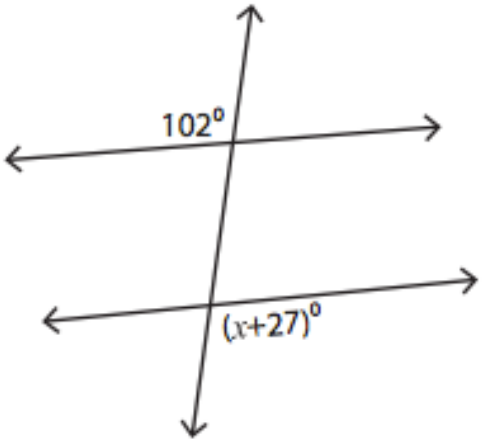


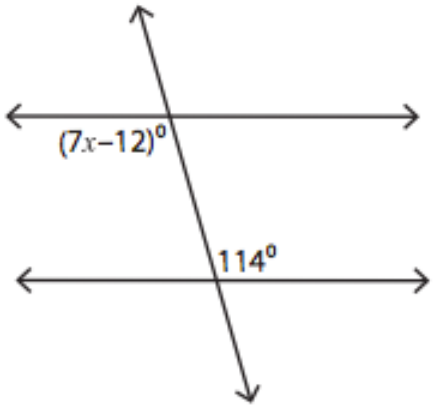
Construct the specified angles on each line segment.

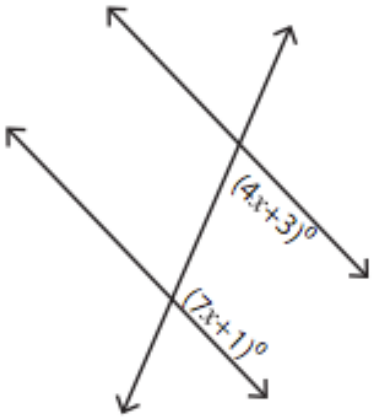
23) 30˚

24) 45˚

25. Find the value of x in each of the following diagrams:

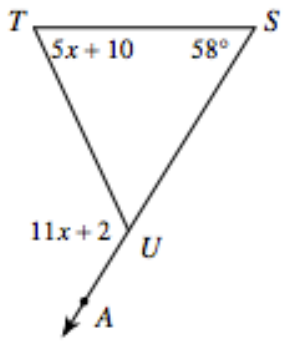


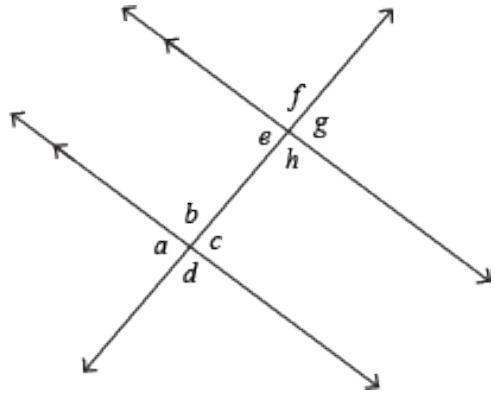




x = _____ x = _____ x = _____

26. What is the value of x? Also, what is the measure of ∡TUS?



26.




Name a pair of vertical angles:

Name a pair of supplementary angles:

Name 2 pairs of corresponding angles:

Name a pair of same-side interior angles:

The measure of ∡GED is 132 degrees. ΔFGE is isosceles with side FG congruent to side EG.

27. What is the measure of ∡G?

28. What is the longest side of the triangle? Justify your answer.