Geometry **Handout #3 (Test)** **2011**

Name: _____ **Score: _____**

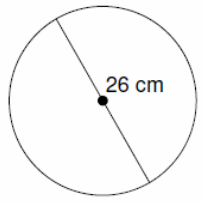
- You will see the same problems as this handout on Final Exam (about 40%) so you should understand most of problems in this handout to pass the final exam. Remember that if you fail the final exam then you will probably have to retake this Geometry class next year.
- The Guest teacher will grade this and give you back on Monday to study and go over your mistakes.
- **<u>If you are disrespectful to the Guest Teacher then your misbehavior will be marked to lower your grade in this semester.</u>**

#1. What is the meaning of Geometry?
Where is the origin of Geometry? (Name two countries)

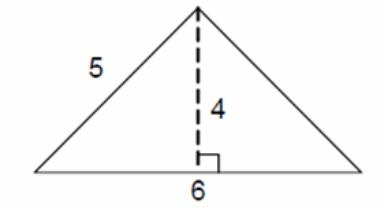
#2. In the diagram of collinear points, $AE = 26$, $AD = 15$, and $AB = BC = CD$. Find the indicated length. *(p. 9)*

DE = AB = AC = BD = CE = BE =

#3. Find the circumference and area of below circle.



Circumference = **Area =**

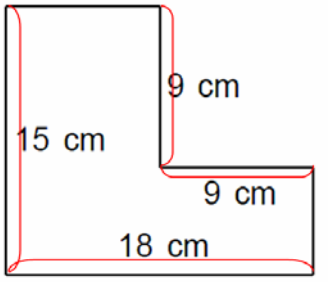


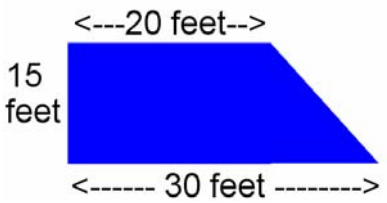
#4. Find the perimeter and area of above triangle.

Perimeter = **Area =**

Geometry **Handout #3 (Test)** **2011**

#5-6. Find the area of the below shapes.





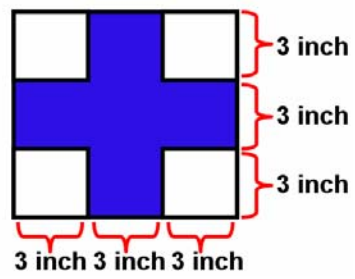
Area = **Area =**

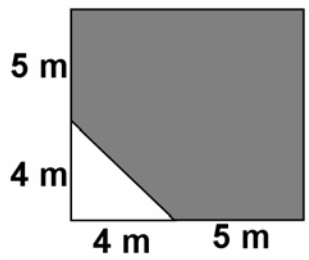
#7. Triangle's base is 15 meters. Its area is 300 square meters. Find the height of the triangle.

#8. Sketch: Three rays that intersect in three points.

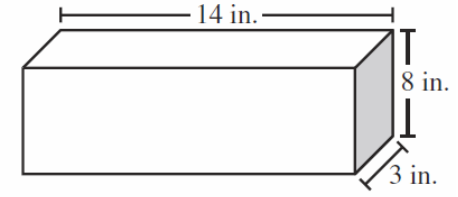
#9. Two lines <u>on the same plane</u> that do not intersect.

#10-11. Find the Shaded Area below.



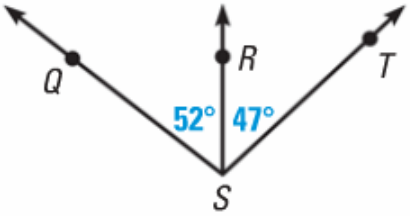


#12. Find the Volume of below box (prism).

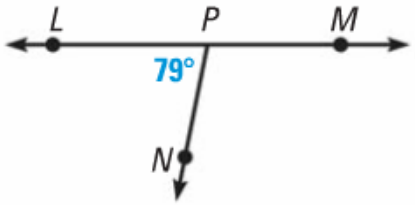


#13. Find the angles.

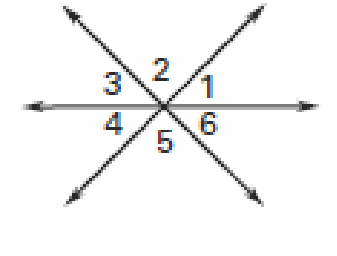
$m\angle QST = \_?\_$



$m\angle NPM = \_?\_$



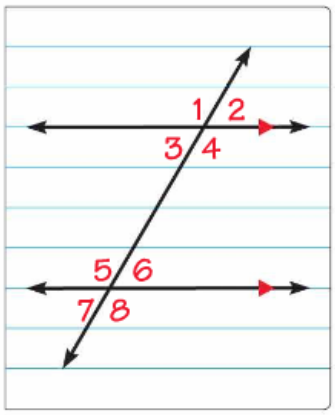
#14. Angle 1 is 30 degree and angle 2 is 100 degree. Find other angles.



Angle 3 = **Angle 4 =**

Angle 5 = **Angle 6 =**

#15. If Angle 2 = 70 then fill out the blank below.



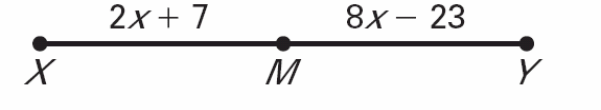
Angle 1	
Angle 2	70
Angle 3	
Angle 4	
Angle 5	
Angle 6	
Angle 7	
Angle 8	

#16. What is the meaning of complementary angles?

What is the meaning of supplementary angles?

What is the meaning of vertical angle?

#17. Point M is the midpoint of XY. Find MY.



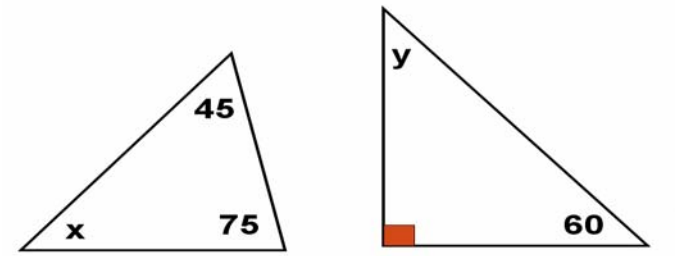
Geometry **Handout #3 (Test)** **2011**

Distance formula is D = $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

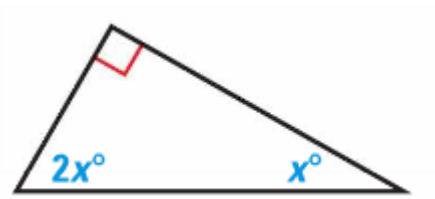
#18. What is the distance between C(1,5) and D(2,7)?

#19. What is the distance between C(-2,3) and D(1,-5)?

#20. Find x and y.

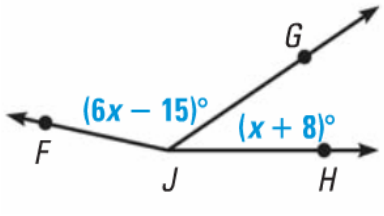


#21. Find x.

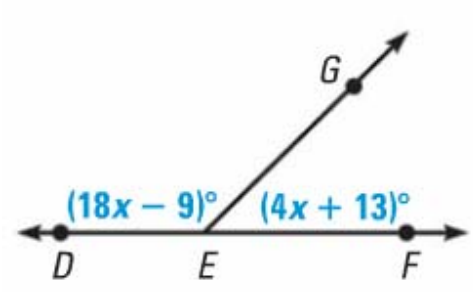


#22.

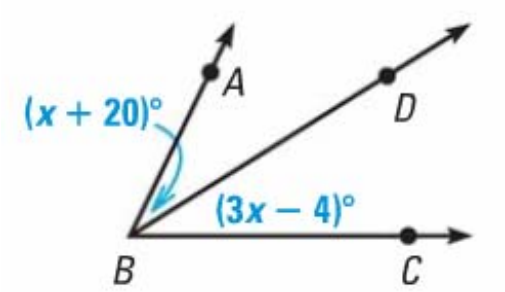
Given $m\angle FJH = 168°$, find $m\angle FJG$.



#23. Find x.
Angle DEF = 180.



#24. Ray BD is a bisector.
Find angle DBC.



#25. What is the vertex? (Draw or explain)