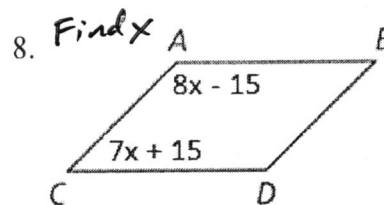
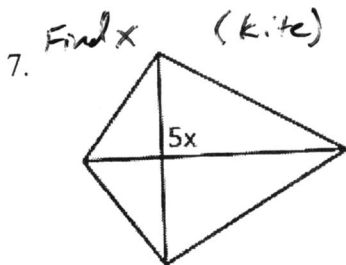
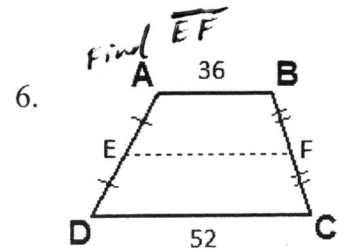
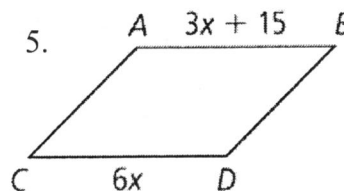
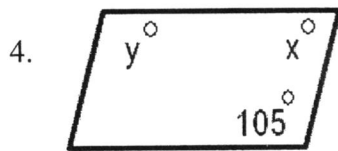


**GEOMETRY BASIC  
SECOND SEMESTER  
"Practice Final Exam"**

Name: \_\_\_\_\_

**CHAPTER 6:**

1. What is the **sum** of the interior angle measure of a **pentagon**:
2. What is the measure of **each** interior angle of a 18-gon:
3. What is the **exterior** measure of a **hexagon**: *(the measure of one exterior angle)*



**CHAPTER 7:**

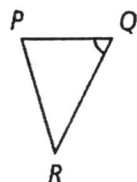
1. Solve the proportion:  $\frac{y+7}{9} = \frac{8}{5}$
2. A basketball team played 32 games and won 20 games. What is the ratio of games lost to games played?
3. A 5 foot girl casts a 3 foot shadow. If tree she is standing next to casts a 18 foot shadow, how tall is the tree?

4.  $MNOP \sim QRST$  with a scale factor of 5 : 4.  $MP = 85$  mm. What is the value of  $QT$ ?

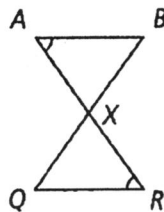
5. To the nearest inch, a door is 75 in. tall and 35 in. wide. What is the ratio of the **width** to the **height**?

6. Which pair of triangles can be proven similar by the AA ~ Postulate?

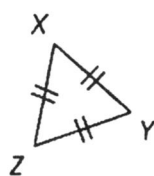
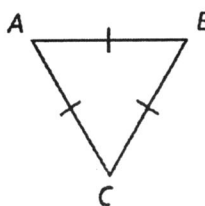
(A)



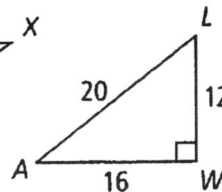
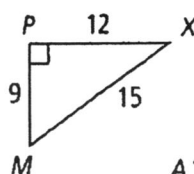
(C)



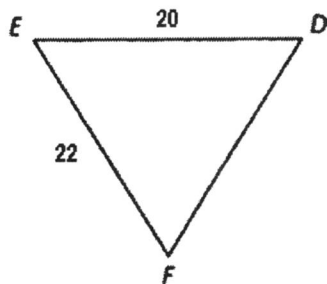
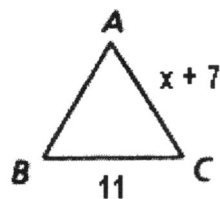
(B)



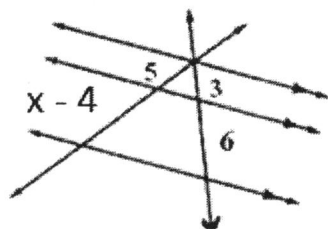
(D)



7.  $\triangle ACB \sim \triangle FED$ . What is the value of  $x$ ?



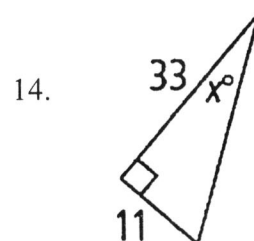
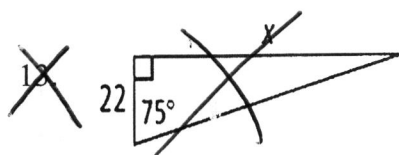
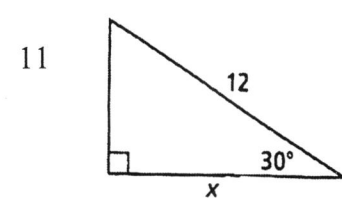
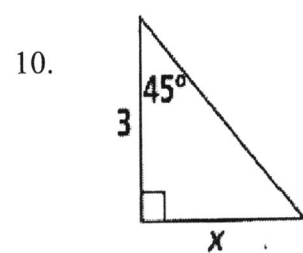
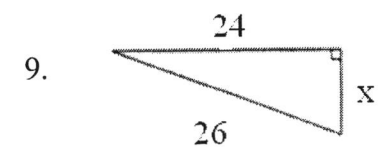
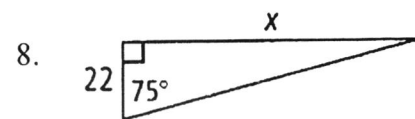
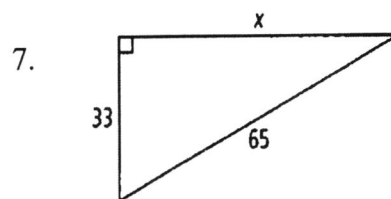
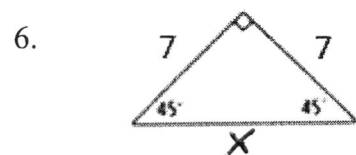
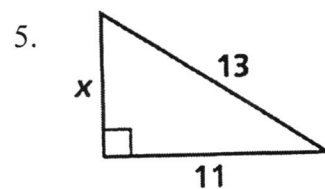
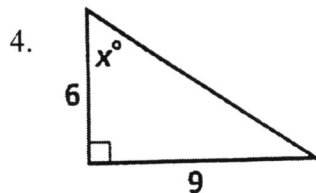
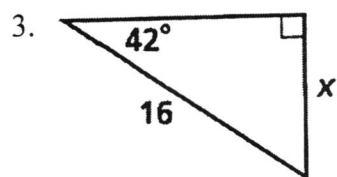
8. Find the value of  $x$ :



## CHAPTER 8:

1. Classify a triangle with side lengths of 17, 8 and 15.

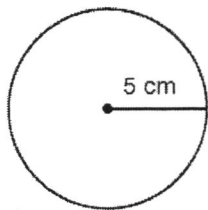
2. Classify a triangle with side lengths of 5, 18, 13.



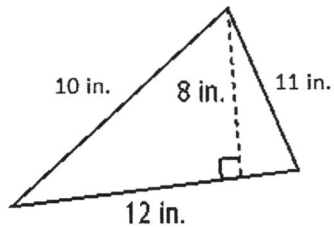
## CHAPTER 10:

What is the area of each figure below? Round to the nearest tenth.

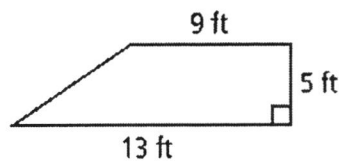
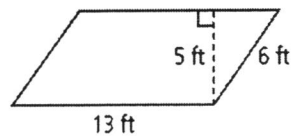
1.



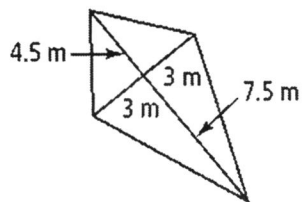
2.



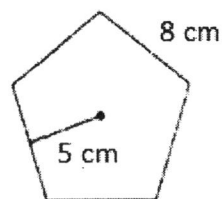
3.



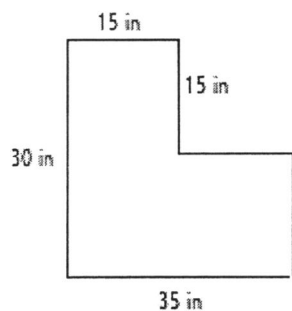
5.



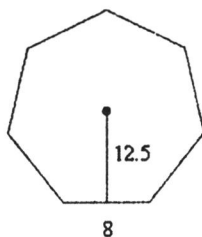
6.



7.

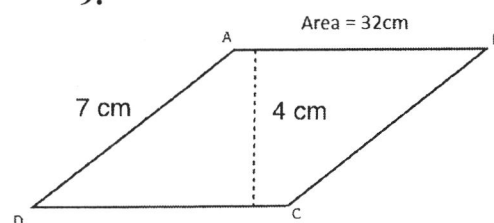


8.



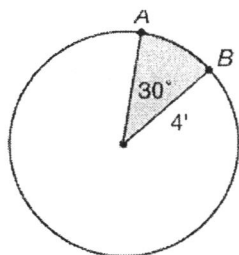
Find DC

9.



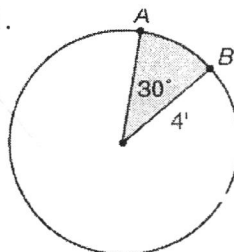
Find the ARC LENGTH

10.



Find the Area of the Sector

11.

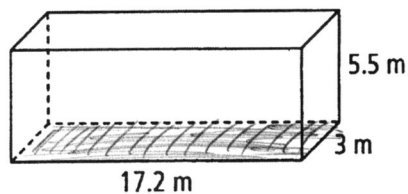


## CHAPTER 11:

1. A polyhedron has 6 vertices and 9 edges. How many faces does it have?
2. A polyhedron has 25 faces and 36 edges. How many vertices does it have?

FIND VOLUME, LATERAL AREA & SURFACE AREA for each of the figures below:

3.



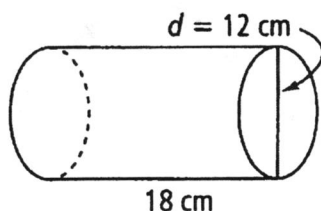
*use shaded side for Base*

Volume: \_\_\_\_\_

LA: \_\_\_\_\_

SA: \_\_\_\_\_

4.

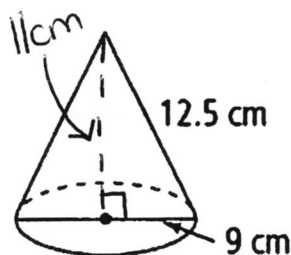


Volume: \_\_\_\_\_

LA: \_\_\_\_\_

SA: \_\_\_\_\_

5.

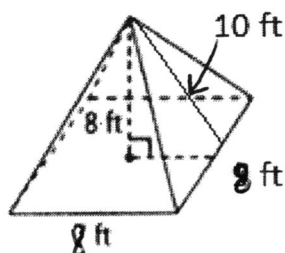


Volume: \_\_\_\_\_

LA: \_\_\_\_\_

SA: \_\_\_\_\_

6.

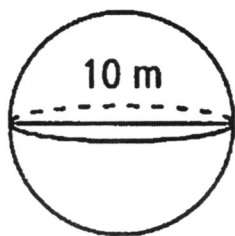


Volume: \_\_\_\_\_

LA: \_\_\_\_\_

SA: \_\_\_\_\_

7.



Volume: \_\_\_\_\_

SA: \_\_\_\_\_

### CHALLENGING MIXED REVIEW:

1. The perimeter of a square is 36cm.
  - a. What is the length of each side of the square?
  - b. What is the area of the square?

2. Find the Area of the shaded region:

