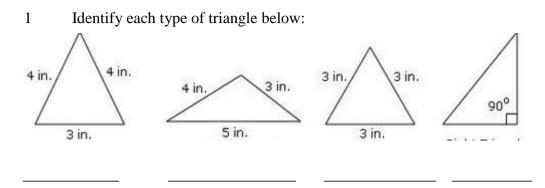
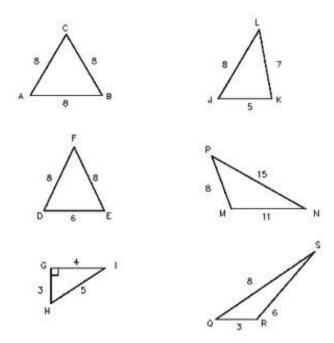
## Unit V Properties of

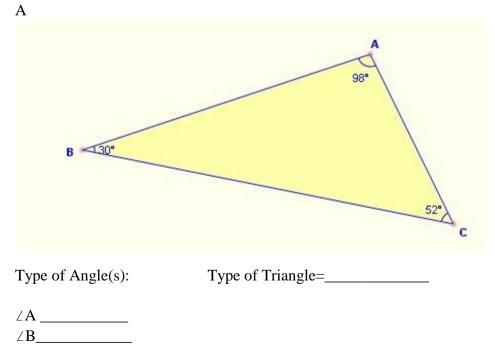
## Figures



2 Identify the type of triangle drawn and indicate which angles are equal. Be careful some triangles do not have equal angles at all.

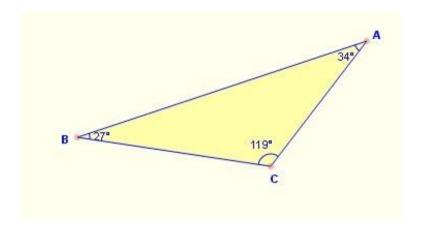


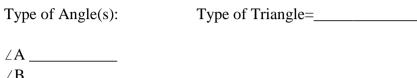
3 In the triangles below, the measure of each angle is given. Identify which angles are obtuse and which angles are acute. Identify the type of triangle as well



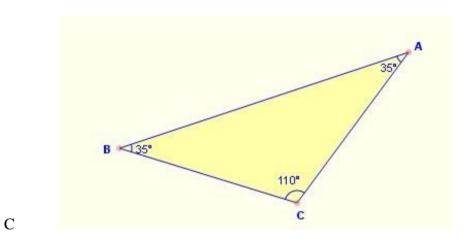
∠C\_\_\_\_\_

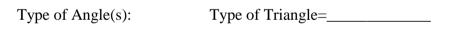
\_ B



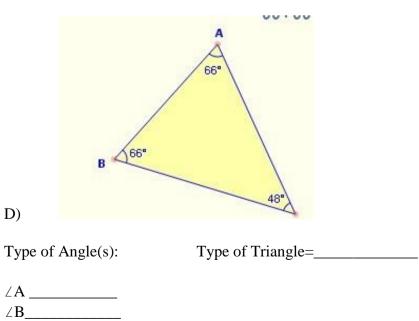


∠B\_\_\_\_\_ ∠C\_\_\_\_\_



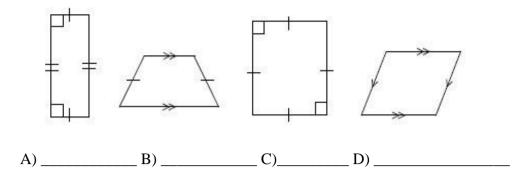


ZA.	
∠B_	
∠C_	



 $\angle C$  4 Identify the

types of quadrilaterals below. Indicate which angles are equal.

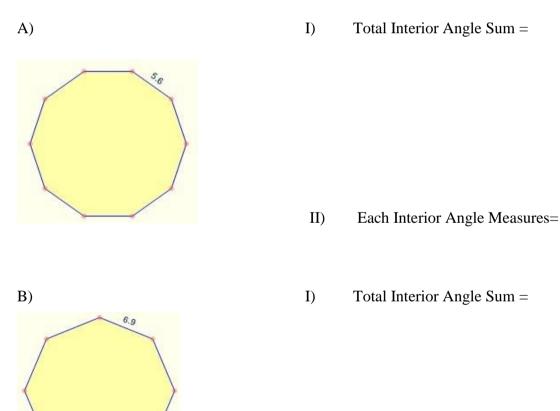


5 Using the formulas

C)

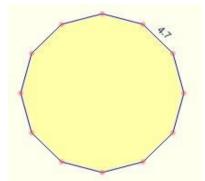
Interior Angle Sum =  $(n-2)180^{\circ}$  where n is the number of sides in the polygon Each Interior Angle =  $\frac{(n-2)180^{\circ}}{n}$ 

answer the questions below: [SHOW ALL WORKINGS!} Confirm able measures with a protractor.



II) Each Interior Angle Measures=

I) Total Interior Angle Sum:



II) Each Interior Angle:

6 Can the sides fit the sides of a triangle? Please explain why or why not. Keep in mind the following properties:

- The side opposite the largest angle is the longest side.
- The side opposite the smallest angle is the smallest side.
- The sum of any two sides must be greater than the length of the third side.

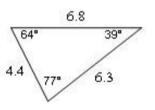
A) 6, 6, 10 Yes or NO. Why or Why Not?

Type of Triangle =\_\_\_\_\_

B) 6, 19, 11

Yes or NO. Why or Why Not?

Type of Triangle =\_\_\_\_\_

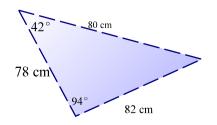


C)

Yes or NO. Why or Why Not?

Type of Triangle =\_\_\_\_\_

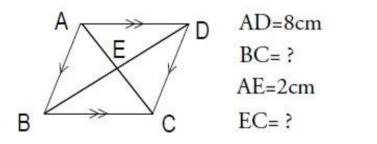
D)



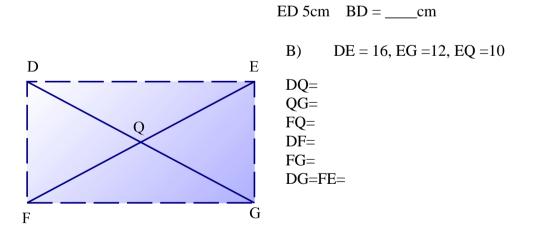
Yes or NO. Why or Why Not?

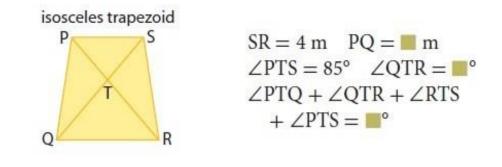
Type of Triangle =\_\_\_\_\_

- 7 State which quadrilaterals have the following properties
- A) all diagonals are equal and opposite sides are parallel
- B) all diagonals are equal
- C) both set of opposite sides are parallel
- D) one set of opposite sides are parallel
- E) the diagonals bisect each other (intersect at the midpoint)
- 8 Determine the missing measure:



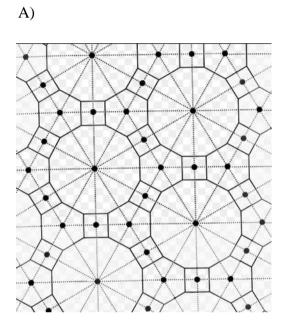
A)

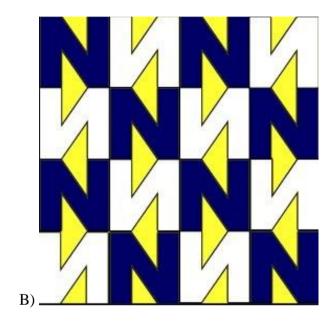


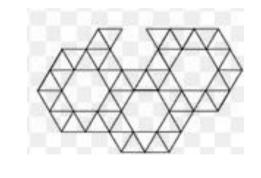


C)

9 Determine if each of the patterns are tessellations and explain how you know if they are or not. (USE A PROTRACTOR and measure each angle at a vertex and find the total sum...if its 360° it's a \_\_\_\_)









10 Determine the number of the lines of symmetry in the following figures by drawing and labeling each line of symmetry (axis of symmetry). Place the answer under each figure.

