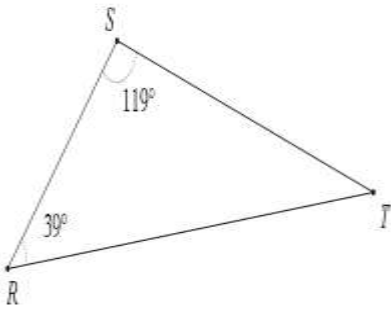


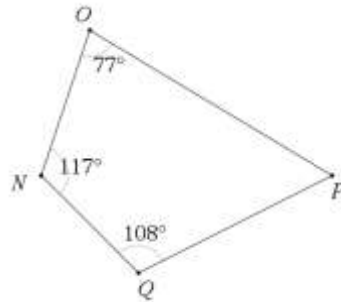
Geometry (E)  
 Polygon Angles and Angle Sums

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

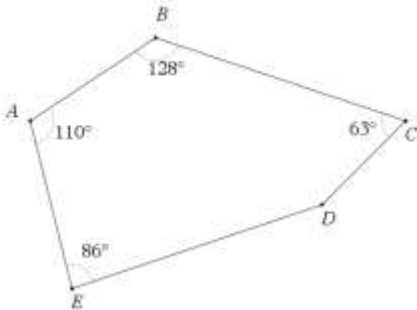
Period: \_\_\_\_\_



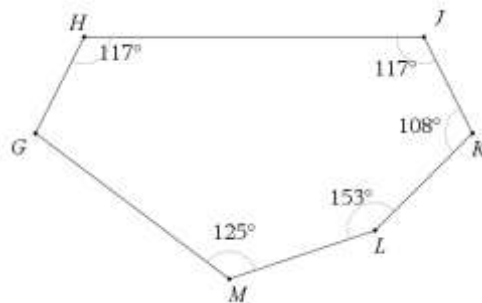
1. Determine the sum of the interior angles of polygon SRT
2. Determine the sum of the exterior angles of polygon SRT
3. Determine the measure of angle T
4. Determine the measures of the exterior angles  
 Exterior to angle R \_\_\_\_\_  
 Exterior to angle S \_\_\_\_\_  
 Exterior to angle T \_\_\_\_\_



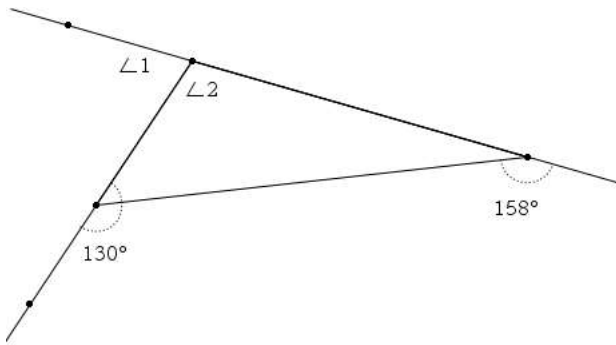
5. Determine the sum of the interior angles of polygon NOPQ
6. Determine the sum of the exterior angles of polygon NOPQ
7. Determine the measure of angle P
8. Determine the measures of the exterior angles  
 Exterior to angle N \_\_\_\_\_  
 Exterior to angle O \_\_\_\_\_  
 Exterior to angle P \_\_\_\_\_  
 Exterior to angle Q \_\_\_\_\_



9. Determine the sum of the interior angles of polygon ABCDE
10. Determine the sum of the exterior angles of polygon ABCDE
11. Determine the measure of angle D
12. Determine the measures of the exterior angles  
 Exterior to angle A \_\_\_\_\_  
 Exterior to angle B \_\_\_\_\_  
 Exterior to angle C \_\_\_\_\_  
 Exterior to angle D \_\_\_\_\_  
 Exterior to angle E \_\_\_\_\_



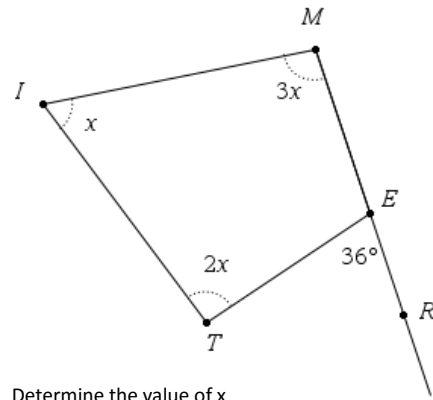
13. Determine the sum of the interior angles of polygon GHJKLM
14. Determine the sum of the exterior angles of polygon GHJKLM
15. Determine the measure of angle G
16. Determine the measures of the exterior angles  
 Exterior to angle G \_\_\_\_\_  
 Exterior to angle H \_\_\_\_\_  
 Exterior to angle J \_\_\_\_\_  
 Exterior to angle K \_\_\_\_\_  
 Exterior to angle L \_\_\_\_\_  
 Exterior to angle M \_\_\_\_\_



17. Which of the numbered angles (1 or 2) is an exterior angle?
18. Which of the numbered angles is an interior angle (1 or 2)?
19. Determine the measure of angle 1 using two different methods

Method 1

Method 2



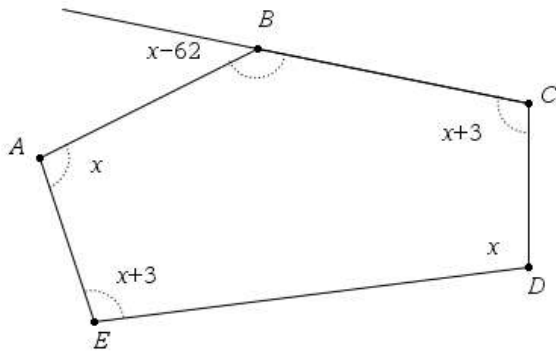
20. Determine the value of  $x$
21. Determine the measures of the angles

Angle T \_\_\_\_\_

Angle I \_\_\_\_\_

Angle M \_\_\_\_\_

Angle TEM \_\_\_\_\_



22. Determine the value of  $x$

23. Determine the measures of the angles

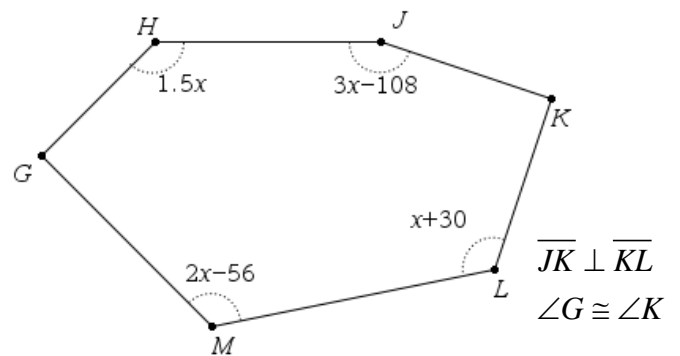
angle A \_\_\_\_\_

angle ABC \_\_\_\_\_

angle C \_\_\_\_\_

angle D \_\_\_\_\_

angle E \_\_\_\_\_



24. Determine the value of  $x$

25. Determine the measures of the angles

angle G \_\_\_\_\_

angle H \_\_\_\_\_

angle J \_\_\_\_\_

angle K \_\_\_\_\_

angle L \_\_\_\_\_

angle M \_\_\_\_\_