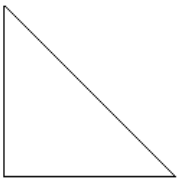
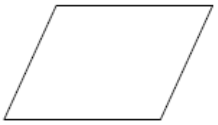
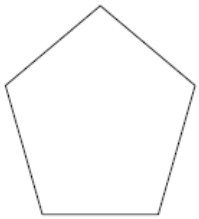
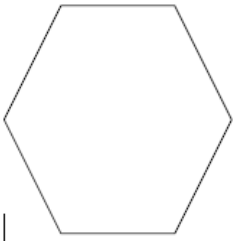
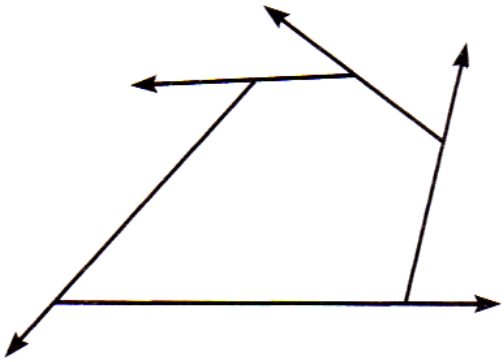
Geo Notes 3-5: Interior and Exterior Polygon Sums

					n-gon
Sides:					n
Δs:					
Total sum:					

Regular polygons have all sides equal and all angles equal.

Polygon Interior Angle Sum: For n-sided figure, angle sum is:

Polygon Exterior Angle Sum: If one exterior angle is drawn at each vertex, they will add up to _____.

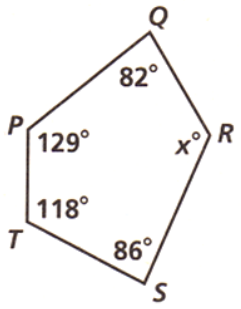


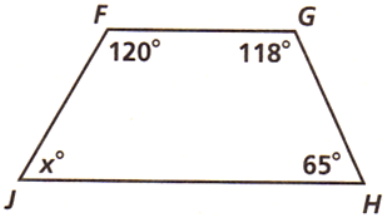
What is the interior angle sum of a figure with:

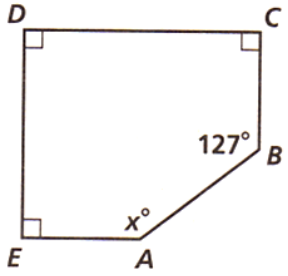
8 sides 10 sides 7 sides 12 sides

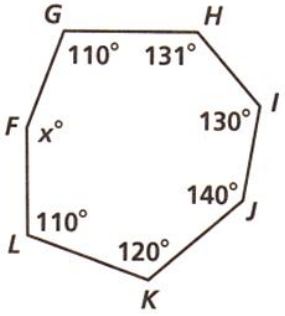
Find the value of the variable:

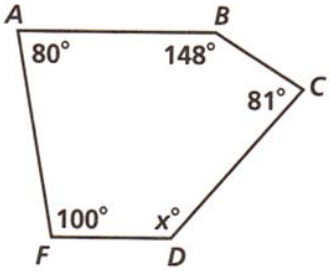
1. What's the total angle sum? $(n - 2) \cdot 180$
2. Write an equation for the angle sum
3. Solve for x.

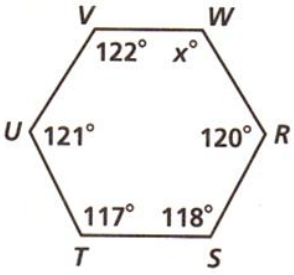












Find the value of each variable.