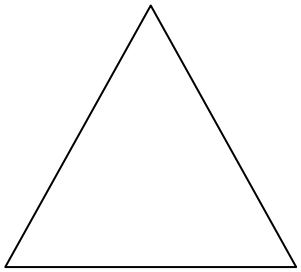
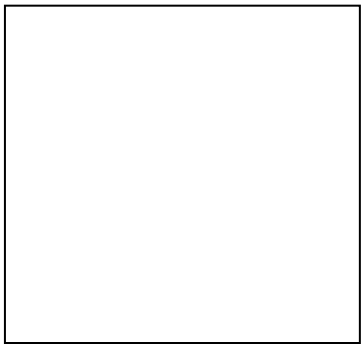
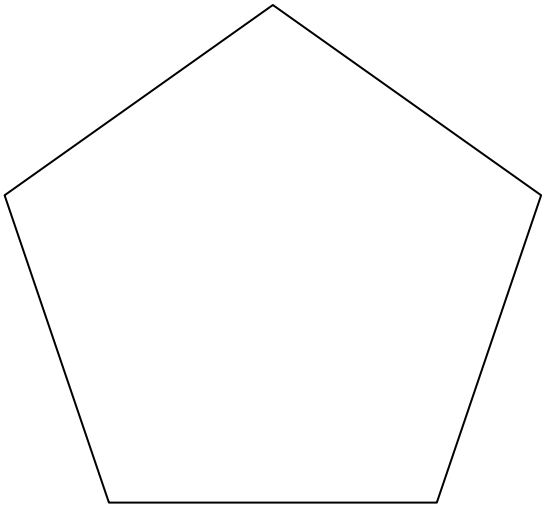
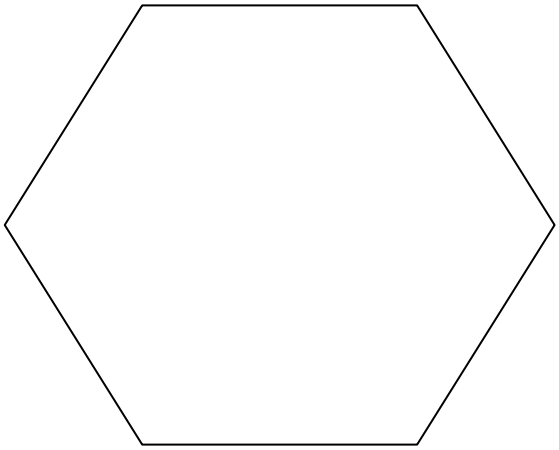
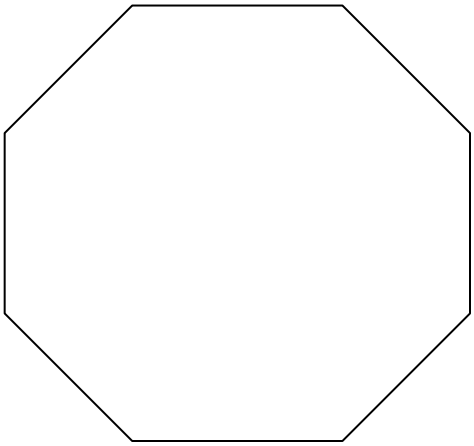
Regular Polygons











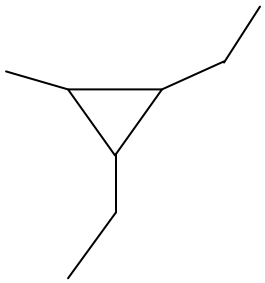
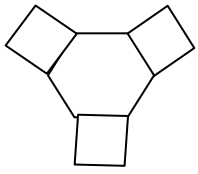
Divide the polygons into triangles and complete the table below. Summarize your findings and particularly establish the following relationship: $ext = \frac{360}{n}$

Regular Polygons

No of Sides	No of triangles	Sum of interior angles	Each interior angle	Each exterior angle	Sum of exterior angles
3					
4					
5					
6					
7					
8					
.					
.					
n					

1. The exterior angle of a regular polygon is 18^0. What is the number of sides?

2. A tessellation is made out of two regular polygons. Part of the tessellation is shown below. How many sides does the larger regular polygon have?



3. A tessellation is made from a square, a regular hexagon and another regular polygon. Part of the tessellation is shown below. How many sides does the third polygon have?