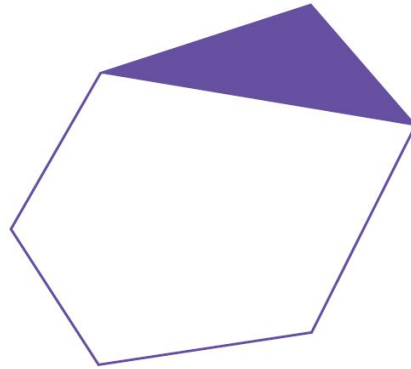# RECURSION – "POLYGONAREA"

Lab Description :

Using recursion, compute the area of a polygon. Cut off a triangle and use the fact that a triangle with corners $(x1, y1)$, $(x2, y2)$, $(x3, y3)$ has area:

$$\frac{|x_1y_2 + x_2y_3 + x_3y_1 - y_1x_2 - y_2x_3 - y_3x_1|}{2}$$

Super Challenge :

After determining the area, draw the polygon as well!