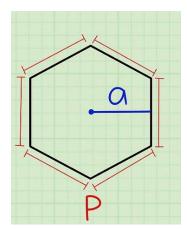
Exercise 2.

Calculate the area of a regular polygon knowing the length of every side and the numbers of side.



$$A = \frac{(S*n)*a}{2}$$

$$a = \frac{S}{2 \tan(\frac{180}{n})}$$

Where:

S= side of length

n= number of sides

Algorithm

Input(sideLenght, nroSides): isCorrect

If(isCorrect)

calculatePerimeter(sideLenght, nroSides):perimeter calculateApothem(sideLenght, nroSides):apothem calculateArea(perimeter, apothem):area print "The area is "+ area"

else:

print "One of the parameters is not correct."

Input(sideLenght, nrodSides): isCorrect

isCorrect=false

If (sideLenght > 0 and nroSides>2)

isCorrect = true

calculatePerimeter(S,n):perimeter

perimeter=S*n

area = area / 2