

TAKS Objective 6
TEK G.5A
Tutorial
(Grade 11)

...use numeric and geometric patterns to develop algebraic expressions representing geometric properties.

This will be related
TEKS A.1D and A.3B
using geometric
properties.

Make tables using the given
information and verify the equations
using the graphing calculator.

How many diagonals will a n-gon have?

Polygon Name (# of Sides)	# of Diagonals from One Vertex
Triangle (3)	0
Quadrilateral (4)	1
Pentagon (5)	2
Hexagon (6)	3
Heptagon (7)	4

$$n - 3$$

Iterations are repeated procedures that are performed. Usually tables can be formed with this information.