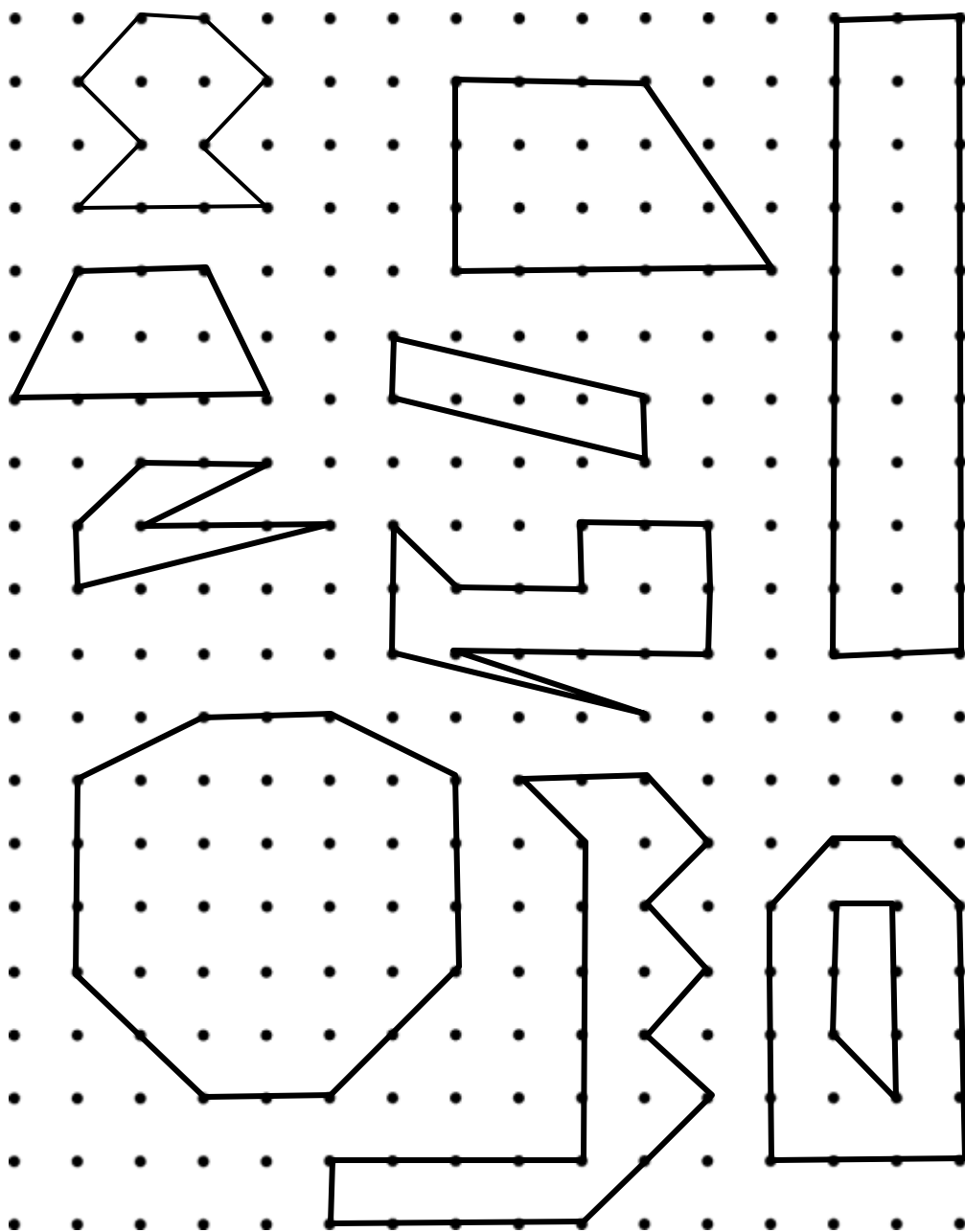


Compute the area of each figure below.



Let's look for patterns in the areas by making shapes with specific numbers of interior pegs/dots.

# of Edge Pegs	# of Interior Pegs	Area (Square Units)
	0	
	0	
	0	
	0	
n	0	

# of Edge Pegs	# of Interior Pegs	Area (Square Units)
	1	
	1	
	1	
	1	
n	1	

# of Edge Pegs	# of Interior Pegs	Area (Square Units)
	2	
	2	
	2	
	2	
n	2	

In general, what is the formula for the area of any simple closed curve using the # of Edge Pegs (E) and # of Interior Pegs (I)?