Name _____

Block _____

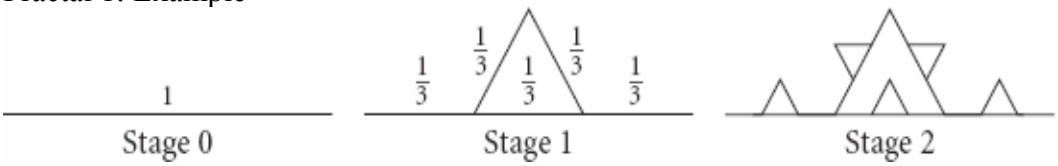
Algebra 1
Fractal Project: Alternate assessment

You may complete the following instead of the more difficult "Invent a Fractal" Project.

0	1	2	
	Overall understanding not demonstrated.	Some errors in tables, but overall understanding shown.	All tables completed correctly and completely.

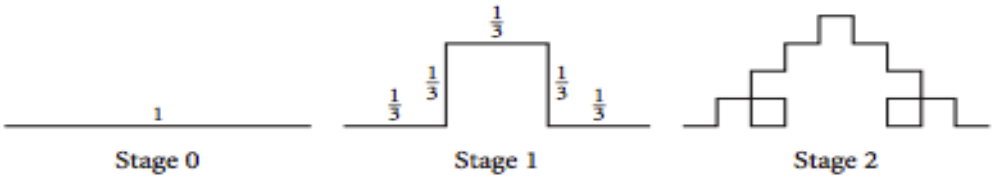
For each of the fractals on the back, make a table showing the number of segments at each stage, the length of each segment, and the total length of all the segments. Use fractions and exponents. Include one line of the table for each stage shown, and one for stage 10 of the fractal. An example is given.

Fractal 1: Example

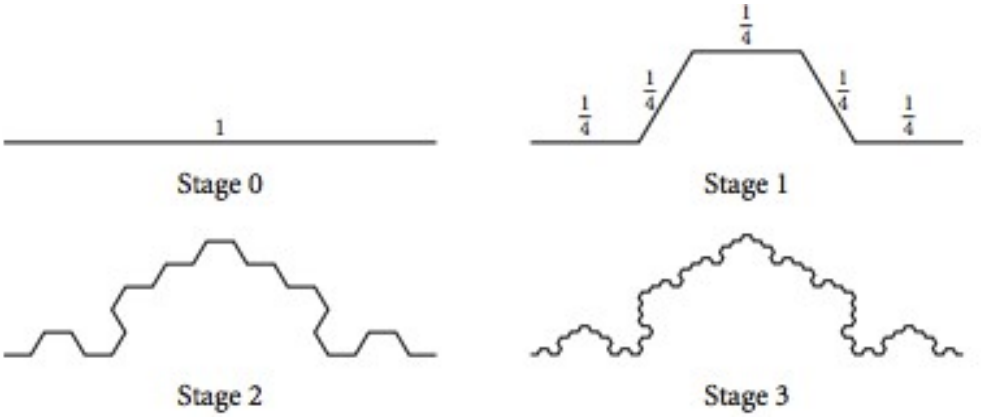


Stage	Number of segments	Length of each segment	Total length of all segments: Fraction form	Total length of all segments: Decimal form
0	1	1	1	1
1	5	$\frac{1}{3}$	$\frac{5}{3}$	1.67
2	$5^2=25$	$(\frac{1}{3})^2=\frac{1}{9}$	$(\frac{5}{3})^2=\frac{25}{9}$	2.78
10	5^{10}	$(\frac{1}{3})^{10}$	$(\frac{5}{3})^{10}$	165.38

Fractal 2



Fractal 3



Fractal 4