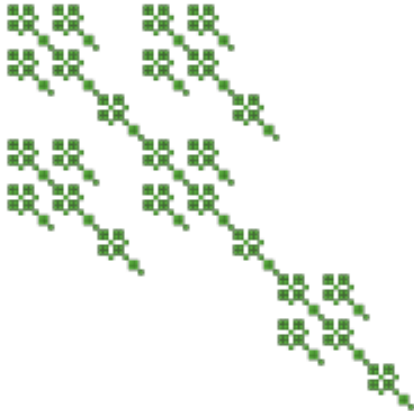


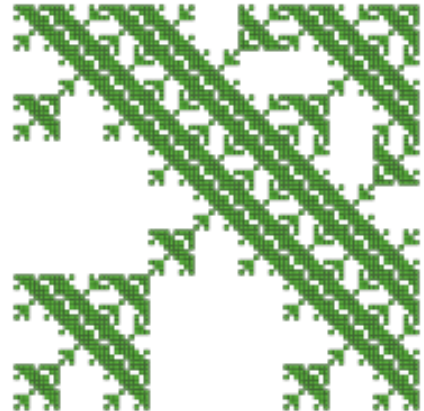
Answer the following questions on a separate sheet of paper and turn in your responses by 9:00 am on Wednesday February 23rd.

1. For the following four fractals write down the generating pattern and the next iteration. Hence or otherwise find the fractal dimension of the fractal.

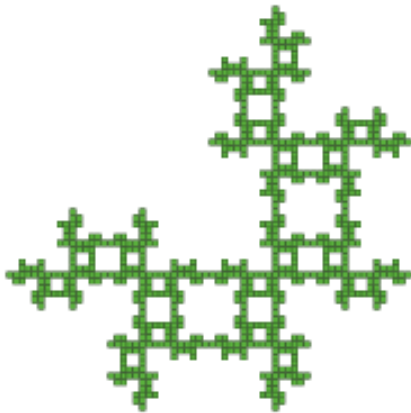
(a)



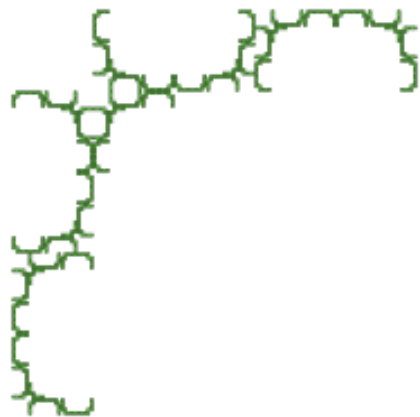
(b)



(c)



(d)



2. Find the fractal dimension of the following fractal curve, called the dragon curve, by using the method of rulers of length 1, $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{1}{8}$. Let the first ruler be the distance between the ends of the curve.

