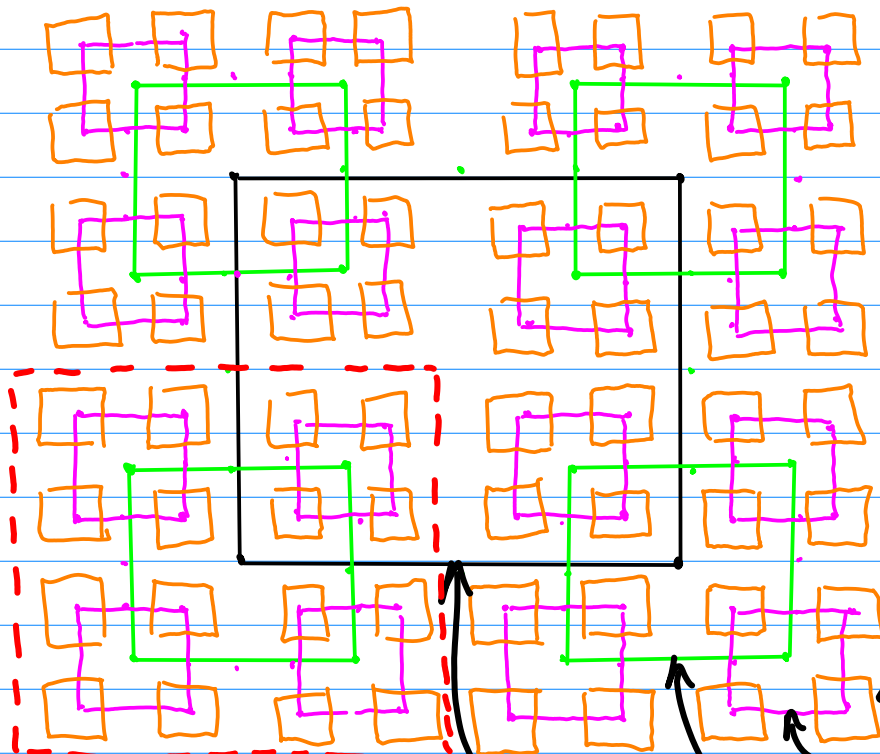
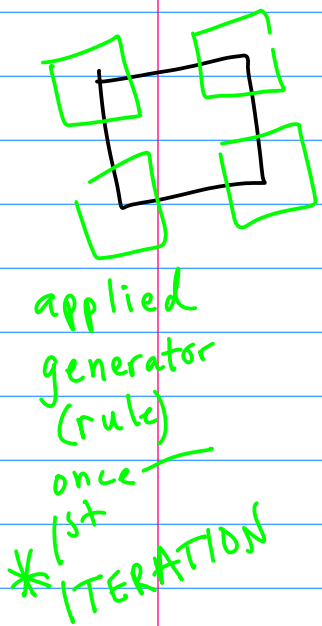


Fractals

• Fractal: a figure produced by repeatedly applying a rule. Generator

Ex: Block (square) Fractal

* Initiator: starting shape (ex: 1st square)



Initiator
Iteration
... 0th
1st
2nd
3rd

#sq added
1
4
16
64

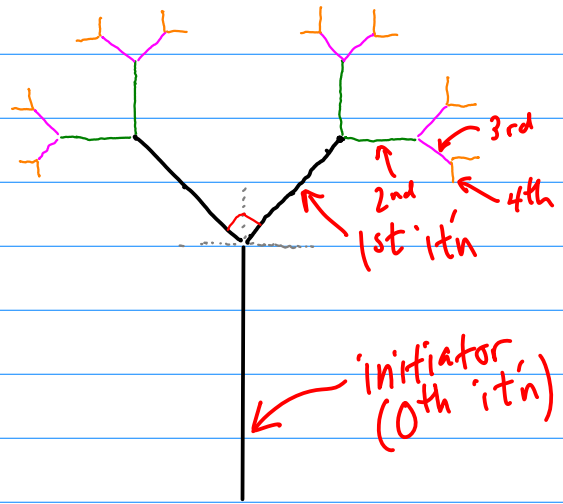
x4

0th it'n
1st it'n
2nd
3rd

If you zoom in on this region, it's the same shape as the entire fractal.
* SELF-SIMILARITY

Ex: (Binary) Tree Fractal

generator rule: at the end of each branch, draw 2 new branches that are 90° apart and half the length of the prior branch.



Ex: Koch ("coke") Snowflake:

