

Math 10460 - Honors Mathematics II

Homework 8b - Due Wednesday, March 16

- (5) Repeat the process to construct the Sierpinski triangle for the square. To do this, imagine you divide the square into 9 smaller squares, then remove the middle square. Sketch 3 iterations of this process. Color each iteration in two colors: one color for the remove squares, and another color for the remaining portions.
- (6) Find and give an example of a fractal pattern in nature, other than a snowflake, which we briefly discussed in class. Describe how the fractal pattern is formed.
- (7) Can you tessellate the plane using Koch snowflakes (possibly of different sizes)? If yes, give a picture of it (computer generated or from the internet is fine); if no, explain why.