

NAME :

1. Write Sage commands (not the output) for the following:

- (a) Make a polynomial p in x with random rational coefficients.
- (b) Save this polynomial, using the file name `/tmp/mydata`.
- (c) Delete the polynomial p from Sage.
- (d) Retrieve the saved polynomial.

2. We can speed up code in Sage with Cython or vectorization.

Explain the difference between working with Cython and vectorization.

Compare the two approaches. What is the advantage of Cython over vectorization?

What is the advantage of vectorization over Cython?

Homework Assignment:

Bring to class on Monday the print out of a Sage notebook with your answers to assignments 1 and 2 of Lecture 7; 1 and 2 of Lecture 8; and assignment 1 of Lecture 9.