

# Introduction to Sage and Ximera

*SageMath is a computer algebra system, throughout these labs sage cells will be used for certain problems. This lab introduces you to the basics of using a sage cell.*

## Introduction

If you ever want to use a sage cell when one is not provided, or would like to experiment with Sage Cells, you can follow this link

## Functions in Sage

To define a function you write  $f(x) = x^2$ , do so in the following cell and evaluate.

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SAGE

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**Question 1** What output did you get from evaluating the function?

**Multiple Choice:**

- (a) None ✓
- (b)  $f(x) = x^2$
- (c)  $x^2$

**Feedback (attempt):** All we did was define a function, to see the function definition type  $f(x)$

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Learning outcomes:  
See link at <https://sagecell.sagemath.org/>