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1. Objectives

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By the end of this lecture, and after some practice, you will be able to:

- Define the boundary of a region in terms of a level curve of a function of 2 variables.
- Use the method of **Lagrange multipliers** to solve constrained optimization problems.
- Use **linear approximation** to understand the relationship between the **gradient** of the function and the gradient of the constraint at a maximum or minimum value along a constraint curve.

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1. Objectives

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