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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.

**Contents: 9 pages**

10 videos (45 minutes 1x speed)      6 questions

## 1. Objectives

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