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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:

- Compute **second derivatives** (and higher) of functions of 2 variables and identify all the types of second derivatives.
- Analyze quadratic functions to determine the type of critical point from the formula for the function.
- Use a **quadratic approximation** to understand the behavior of a function near critical points.
- Use the **second derivative test** to classify critical points.

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1. Objectives

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