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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 and sketch **gradient vectors** in relation to level curves of a function.
- Identify the gradient as a measure of the **direction and magnitude of steepest increase** of a multivariable function.
- Visualize the gradient as a **vector field** : a vector defined at every point (x, y).

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1. Objectives

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