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You want to find the minimum of a function, starting from a guess, assuming that you cannot depict the graph of the function, for example the following function

$$f(x) = \exp(\sin(x^2)) + \sqrt{x^4 + 3}\sin(\exp(-\frac{1}{(1+\epsilon|x|)}))$$

Idea:

- 1) Make a guess
- 2) Compute the derivative at this point (i.e. the slope)
- 3) Follow the direction of the slope (i.e. descend)
- 4) Stop when the slope is zero, i.e. it does not go downhill



















