

# 6.867 Homework 1

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## I. IMPLEMENTING GRADIENT DESCENT

## II. LINEAR BASIS FUNCTION REGRESSION

- A. *Closed-form Solution with Polynomial Basis*
- B. *Gradient Descent Solution with Polynomial Basis*
- C. *Closed-form Solution with Cosine Function Basis*

## III. RIDGE REGRESSION

## IV. SPARSITY AND LASSO