Handling a function in Matlab

1. Defining functions

   - Anonymous function: `funcName = @(inVar) funcExprs`
   - Inline function : `funcName = inline(funcExprs, inVar1, inVar2, ...)`
   - Using `function`: `function outVar = funcName(inVar1, inVar2, ...){ funcExprs }`

Graphs of functions

1. Plotting single variable functions: `plot`

   - Decorating options: color and marking, `linewidth`, `markersize`
   - Multiple drawing: `hold on`, `hold off`, `drawnow`

2. Plotting 2-variable functions: `surf`, `mesh`

   - How to use `meshgrid`
   - Predefined grid for sphere: `sphere`

3. Drawing implicit graphs

   - Implicit plots in 2d and 3d: `implicit`, `implicit3`
   - Plotting contour lines: `contour`, `contour3`

4. Adding legends

   - Titles, x and y-labels: `title`, `xlabel`, `ylabel`
   - Adding texts: `text`
   - Adding legends: `legend`

Scatter plot and regression

1. Drawing scatter plot: `scatter`

2. Finding regression line: `regress` (Need *Statistics and Machine Learning Toolbox*)

3. Drawing histogram: `histogram`