Lecture 17

Instructor Lecture and Matlab Demonstration:

Logical (Boolean) operations: <, >, <=, >=, ==, ~=; &, ~, |

grades = [ 78 83 63 87 99]

grades>90

find(grades>90)

pass = grades>69.999

t = 0:.1:10; y = (t<4).*t.^2 + (t>=4).*t + 2; plot(t,y)

Example 8.1: sin(x)/x

Simple if-end commands (see section 8.4.1):

if single logical execution
end

function output = funjump(t)
    if (t<4)
        output = t.^2;
    end
    if (t>=4)
        output = t + 2;
    end
end

Simple for-end commands (see section 8.5.1):

for vector repeated execution
end

suma = 1
for k = [1 3 7]
    suma = suma + k
end

Student Matlab Computations:

Exercise 8.1

Exercise 8.4

Student Multiple Choice Questions:

Go to moodle, login, choose ma116 and answer the multiple choice questions.