Assignment 5

Read the assignment carefully! Remember that the first line of a script must be the call to the script **preamble**.

A. Mandatory

The script Assignment05A.m calls the function mysolve which has to be modified according to the specifications in the comments. Do not modify anything outside the function! *(4 pt)*

➡ **After testing, rename the script to Assignment05A_IDxx.m[1]!**

B. Optional

Write the script **Assignment05B_IDxx.m**[1] that solves the following problem. ABC is an equilateral triangle. Somewhere *inside* the triangle is a point P such that its distance from A is a, its distance from B is b, and its distance from C is c. Find a symbolic expression for the area F of the triangle with the help of the symbolic toolbox. Finally, set $a = 3\,\mathrm{cm}, b = 4\,\mathrm{cm}, c = 5\,\mathrm{cm}$ and display the value of F in cm^2 both in symbolic and in numerical (double) form. *(3 pt)*

Hints: Depending on your approach, there might be several symbolic solutions along the way, but only one of them can be geometrically valid. In this case, the valid solution has to be found by the script, not by you!

➡ **Make sure that the relevant results and *only* those are shown in the output to the command window. Submit the script(s) until 5pm on April 28, 2021. Any violation of the naming convention will lead to the rejection of the submission!**

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[1]xx is your/your group's ID number for the submission.