

## Wednesday – Part 2

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### *GUI Quadratic*

```
function diakvadr
message1 = sprintf('Koeficient a');
message2 = sprintf('Koeficient b');
message3 = sprintf('Koeficient c');
message = {message1, message2, message3};
dlg_title = 'Qadratic function';
num_of_lines = 1;
preselection = {'1', '1', '1'};
usr_inp = char(inputdlg(message, dlg_title, num_of_lines, preselection));
% Cancel press handling
if strcmp(usr_inp, '')
    return;
end;
x = str2num(usr_inp(1,:));
y = str2num(usr_inp(2,:));
z = str2num(usr_inp(3,:));
if ((x == []) | (y == []) | (z == []))
    return;
end;
C=[x,y,z];
Koreny=roots(C)
result = sprintf('Input was a=%6.2f, b=%6.2f, c=%6.2f.\n', x, y, z);
for cycle=1:length(Koreny)
    result = [result, sprintf('Result [%d] is %6.2f+%6.2fi\n', cycle,
real(Koreny(cycle)), imag(Koreny(cycle)))];
end;
msgbox(result,'Finished evaluation','help');
```