```
zad1a.m × zad1b.m × zad2.m × +
  Name ▼
                                                                                                                                                                                                                                                  Name -
                                                                                                                                                                                                                                                                     Value
Name 
Zielina i Piwowarczyk.zip
zad2.m
zad1b.m
zad1a.m
                                                                                                                                                                                                                                                                    -3.1623
1x1 inline
[1,0,-10]
[3.1623;-3.1623]
                                                                                                                                                                                                                                                 ans

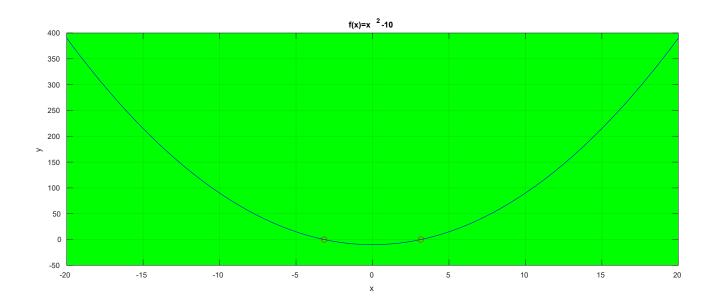
f
p
r
                                          \neg function [x,z] = bis(f, x1, x2, r)
                                 16
17
18 -
19 -
20 -
21 -
22 -
23
24 -
25 -
26
27
28 -
29
30 -
31 -
32 -
33 -
                                            x = linspace(x1,x2,100);
                                          c = x1; d = x2;

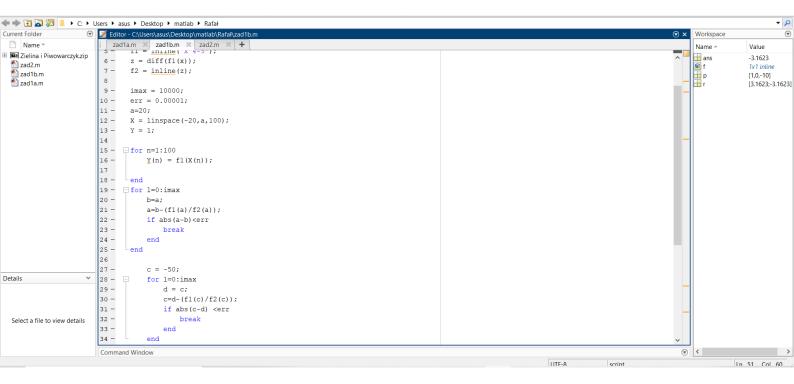
a = f(x1); b = f(x2);
                                                 for k = 1:r
                                                 x = (x1 + x2)/2;

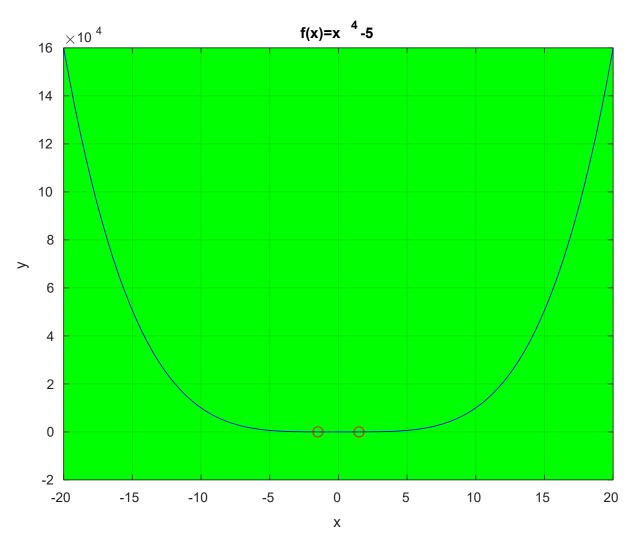
y = f(x);

z = (c + d)/2;

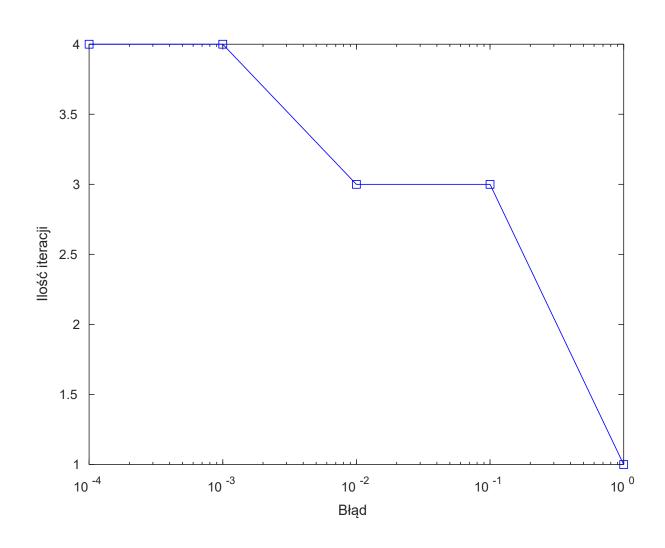
y2 = f(z);
                                 34
35 -
36 -
37 -
38 -
39 -
40 -
41 -
42 -
43 -
44 -
                                                  if a*y < 0
x2 = x;
                                                  x2 = x;
else
   x1 = x;
end
if b*y2 > 0
   d = z;
else
Details
   Select a file to view details
                                                  c = z;
                                                                                                                                                                                                                                                               In 24 Col 16
```









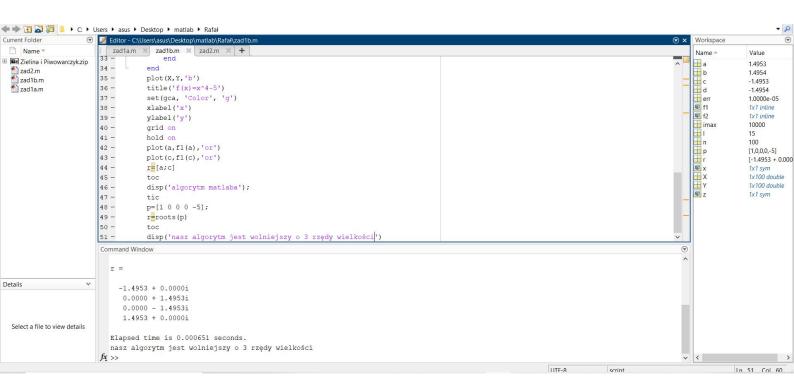


```
    ←
    →
    □
    Desktop
    • matlab
    • Rafał

    Current Folder
    ✓
    Zeditor - C\Users\asus\Desktop\matlab\Rafał

  Name ▼
                                zad1a.m × zad1b.m × zad2.m
                                                                                                                                                                                                                            Name
                                                                                                                                                                                                                                             Value
 Zielina i Piwowarczyk.zip
                                       clear; clc; close all;
                                                                                                                                                                                                                           ans
f
p
r
                                                                                                                                                                                                                                             -3.1623
  zad2.m 2 zad1b.m 2 zad1a.m
                                                                                                                                                                                                                                            1x1 inline
[1,0,-10]
[3.1623;-3.1623]
                                        disp('nasz algorytm');
                                        tic
f = inline('x^2-10');
                                        bis(f, -20, 20, 100);
                              9 -
10 -
11 -
12 -
                                        disp('algorytm matlaba ');
                                        tic
                                       p=[1 0 -10];
                                        r=roots(p)
                              13 -
14 -
                                        disp('nasz algorytm jest wolniejszy o 3 rzędy wielkości');
                              15
16
17
                                     \neg function [x,z] = bis(f, x1, x2, r)
                                       X = linspace(x1, x2, 100);
                               Command Window
                                 Elapsed time is 0.219175 seconds.
                                  algorytm matlaba
Details
                                       3.1623
  Select a file to view details
                                 Elapsed time is 0.004083 seconds.
                                 nasz algorytm jest wolniejszy o 3 rzędy wielkości
```

3b.



Adam Zielina Rafał Piwowarczyk