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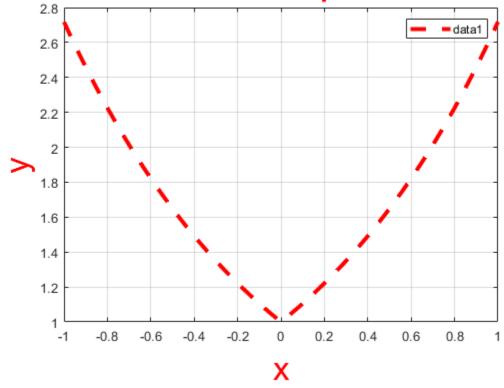
Problema #1	.]
Problema #2	
Problema #3	
Problema #4	
Problema #5	
1001cma πJ	

```
[x1,x2]=ec_grad_2(1,-3,2)
[x1,x2]=ec\_grad_2(1,-2,2)
[x1,x2]=ec\_grad_2(1,-2,1)
type('ec_grad_2')
x1 =
     2
x2 =
     1
x1 =
   1.0000 + 1.0000i
x2 =
   1.0000 - 1.0000i
x1 =
    1
x2 =
     1
function [x1,x2]=ec_grad_2(a,b,c)
x1=(-b+sqrt(b^2-4*a*c))/(2*a);
x2=(-b-sqrt(b^2-4*a*c))/(2*a);
end
```

```
[y1,y2]=functie(2,0)
xmin=(-1);
xmax=1;
x=linspace(xmin,xmax,100);
for i=1:length(x)
if(x(i)>0)
    y(i) = \exp(x(i));
    i=i+1;
elseif (x(i)==0);
    y(i) = exp
    i=i+1;
elseif (x(i)<0)
    y(i) = \exp(-x(i));
    i=i+1;
end
end
plot(x,y,'--
r', 'linewidth',3,'MarkerEdgeColor','y','MarkerFaceColor','g','MarkerSize',10)
title ('Functie definita pe
ramuri','FontSize',20,'FontAngle','Italic','Color','r');
xlabel('x','FontSize',25,'Color','r')
ylabel('y','FontSize',25,'Color','r')
legend
type('functie')
ans =
  logical
   1
y1 =
    7.3891
y1 =
    7.3891
y2 =
     1
function [y1,y2]=functie(a,b)
if a<1
```

```
y1=exp(-a);
elseif a==0
    y1=exp;
else a>1
    y1=exp(a)
end
if b<1
    y2=exp(-b);
elseif b==0
    y2=exp;
else b>1
    y2=exp(b)
end
end
```

Functie definita pe ramuri



```
a=[-3 4 7 4 7 -6 0 3 9 0];
%r=randi(500,1,100)
[max,k,p]= maxim(a)
type('maxim')

max =
    -3
```

```
max =
     7
max =
     9
k =
     1
p =
     9
function [max,k,p] = maxim(a)
%a=[-3 4 7 4 7 -6 0 3 9 0];
max=a(1);
i=1;
k=1;
while i<=numel(a)</pre>
    if max<a(i)</pre>
        max=a(i);
        k=1;
        i=i+1;
    elseif max==a(i)
        max
             k=k+1;
             i=i+1;
    elseif max>a(i)
        i=i+1;
    end
end
i=1;
z=1;
while i<numel(a)</pre>
    if max==a(i)
        p(z)=i;
        z=z+1;
        i=i+1;
    else
        i=i+1;
    end
end
end
```

Problema #4

```
a1=[2 3 4 5 6]
[b]=invers(a1)
type('invers')
a1 =
    2
         3
              4
                    5
                           6
b =
    6
         5
               4
                      3
                            2
function [b] = invers(a1)
k=numel(a1);
i=1;
while i<=numel(a1)</pre>
   b(k)=a1(i);
   i=i+1;
   k=k-1;
end
```

```
n1=10;n2=20;n3=30;n=0;ok=0;
S11=0; S12=0; S13=0; S14=0;
%а
for k=1:n1
S11=S11+1/(2^k);
end
for k=1:n2
S12=S12+1/(2^k);
end
for k=1:n3
S13=S13+1/(2^k);
end
S11
S12
S13
%b
S=1;
Eal=abs(S-S11)
Ea2=abs(S-S12)
Ea3=abs(S-S13)
%C
```

```
Er1=(abs(S-S11))/(abs(S))*100;
Er2=(abs(S-S12))/(abs(S))*100;
Er3=(abs(S-S13))/(abs(S))*100;
F = sprintf('%s\n', repmat('%8g%%',1,6));
fprintf(F,Er1.')
fprintf('\n')
fprintf(F,Er2.')
fprintf('\n')
fprintf(F,Er3.')
%d
while ok==0
    n=n+1;
    S14=S14+1/(2^n);
    Er4=(abs(S-S14))/(abs(S))*100;
    if Er4==3
        ok=1;
    elseif Er4<3
        n
        ok=1;
    end
end
S11 =
    0.9990
S12 =
    1.0000
S13 =
    1.0000
Ea1 =
   9.7656e-04
Ea2 =
   9.5367e-07
Ea3 =
   9.3132e-10
```

0.0976563% 9.53674e-05% 9.31323e-08% n =

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