3.laboratorijas darbs

Contents

Gabalveida signaala montaaza

Dots sekojosais grafiks

Pildiju so uzdevumu, jo "Individualie_uzdevumi_katram_studentiam2020.pdf" failaa nav induviduala uzdevuma uz mana vaarda
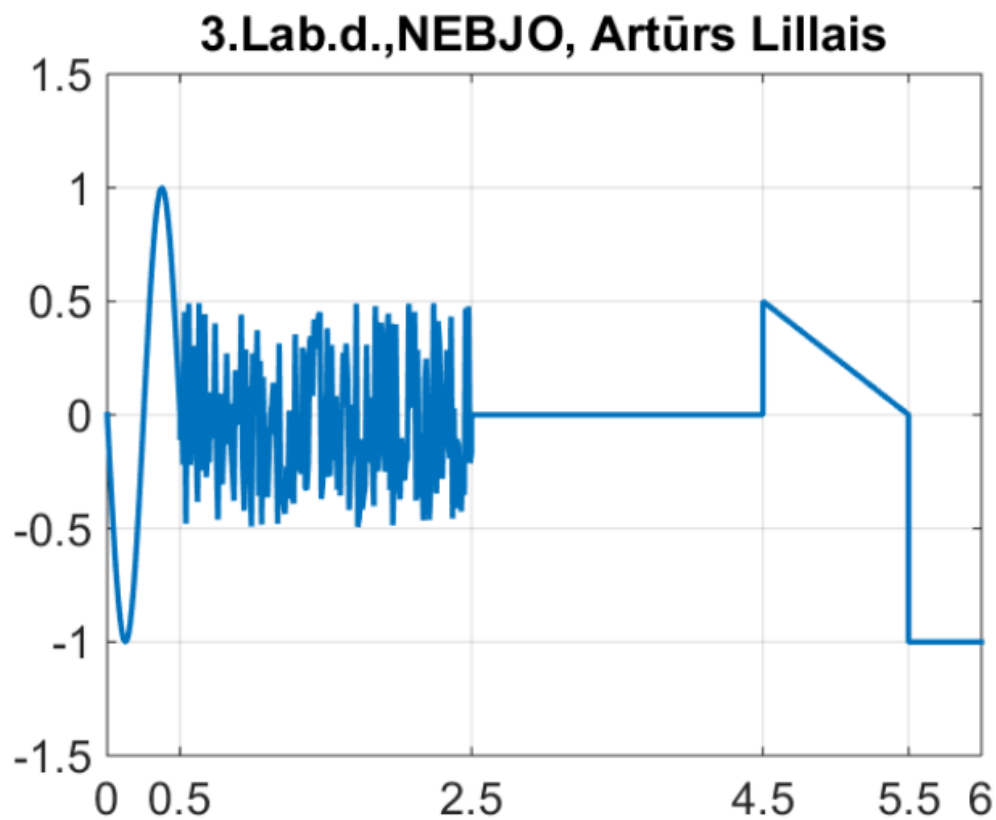

```
function y = lab3_done(t)
```

```
if nargin == 0
```

```matlab
    t = 0:0.01:6;
end

t_sin=0:0.01:0.5;
t_noise = 0.5:0.01:2.5;
t_const = 2.5:0.01:4.5;
t_saw = 4.5:0.01:5.5;
t_const2 = 5.5:0.01:6;
```

Sinusoiida

```matlab
A0=0; A=1;
T = (4.5-1.5)/-3;
f =2/T; delay=1.5;
y_sin=A0+A*sin(2*pi*f*(t_sin-delay));
%plot(t_sin,y_sin)%% Grafika formateesana
%hold on
```

Troksna signaals

```matlab
y_noise = 1*rand(size(t_noise))-0.5;
%plot(t_noise,y_noise)
```

Konstantes signaals

```matlab
y_const = zeros(size(t_const))+0;
%plot(t_const,y_const)
```

Liniaari mainiiga funkcija

```matlab
k = (0.5-0)/(0-1);
delay = 5.5;
y_saw = k*(t_saw-delay);
%plot(t_saw,y_saw)
```
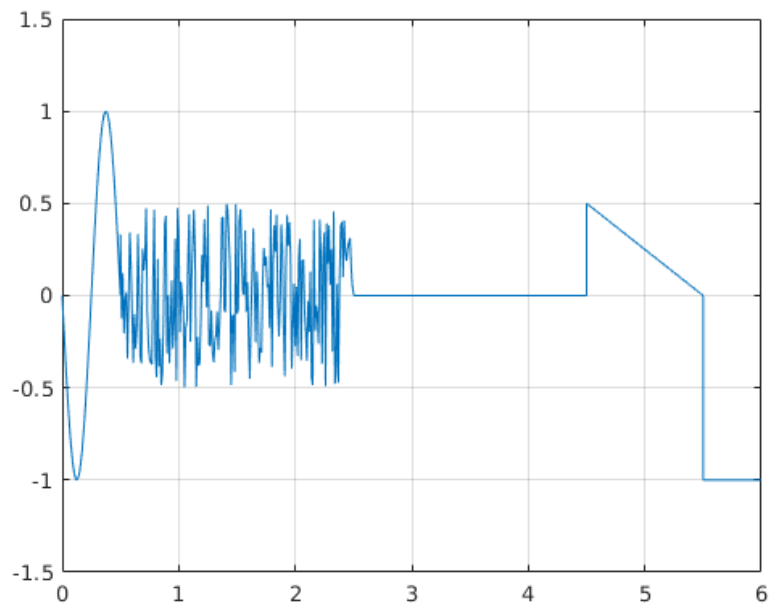
Konstantes signaals 2

```matlab
y_const2 = zeros(size(t_const2))-1;
%plot(t_const2,y_const2)
```

Apvienosim visu vienaa vektoraa un grafika formateesana

```matlab
t = [t_sin, t_noise, t_const, t_saw, t_const2];
y = [y_sin, y_noise, y_const, y_saw, y_const2];
if nargout == 0
    plot(t,y);
    y = [];
end
grid
axis([0 6 -1.5 1.5])
```

```
ans =

     []
```

Secinaajumi

Sii darbaa es iepazinos ar gabalveida signaala montaazu. Kaa dazaadus grafikus apvienot vienaa signaalaa, kaa formateet tos un kaa uztaisiit funkciju.

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