

Majas darbs

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1 Kods Matlab

```
t_saw = (-2) : 0.01 : 0;
k = (-2-0)/(-2-0)
delay = 0;
y_saw = k * (t_saw - delay);
plot(t_saw, y_saw, 'k')
hold on
t_sin = (-2) : 0.01 : 2;
A0 = 0.5;
A = 0.5;
T = (3-(-3))/(1/3);
f = 1/T;
delay = 0;
y_sin = A0 + A * sin(2 * pi * f * (t_sin - delay));
plot(t_sin, y_sin, 'r')
t_in = (-2) : 0.01 : 2;
A0 = 0;
A = 1;
T = (2-(-2))/(1/2);
f = 1/T;
delay = 0;
y_in = A0 + A * sin(2 * pi * f * (t_in - delay));
plot(t_in, y_in, 'b')
t_const1 = 0 : 0.01 : 1;
y_const1 = 0 * ones(size(t_const1));
t_const2 = 1 : 0.01 : 2;
y_const2 = 1 * ones(size(t_const2));
t_const = [t_const1, t_const2];
y_const = [y_const1, y_const2];
plot(t_const, y_const, 'g')
tonstr = (-2) : 0.01 : 0;
yonstr = 0 * ones(size(tonstr));
t_sawr = 0 : 0.01 : 2;
k = (0-2)/(0-2)
```

```

delay = 0;
ysawr = k * (tsawr - delay);
trelu = [tconstr, tsawr];
yrelu = [yconstr, ysawr];
plot(trelu, yrelu, 'm')
axis([-2 2 -2 2])
legend('ld', 'Sigmoid', 'tanh', 'Treshold', 'ReLu')
z=plot(trelu, yrelu)
za = get(z, 'Parent');
set(za, 'XTick', [-2 -1 0 1 2]);
set(za, 'YTick', [-2 -1 0 1 2]);

```

