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## 1 Kods Matlab

```
t_s aw = (-2) : 0.01 : 0;
k = (-2-0)/(-2-0)
delay = 0;
y_s aw = k * (t_s aw - delay);
plot(t_s aw, y_s aw, 'k')
hold on
t_s in = (-2) : 0.01 : 2;
A0 = 0.5;
A = 0.5;
T = (3-(-3))/(1/3);
f = 1/T;
delay = 0;
y_s in = A0 + A * sin(2 * pi * f * (t_s in - delay));
plot(t_sin, y_sin, 'r')
t_s in = (-2) : 0.01 : 2;
A0 = 0;
A = 1;
T = (2-(-2))/(1/2);
f = 1/T;
delay = 0;
y_s in = A0 + A * sin(2 * pi * f * (t_s in - delay));
plot(t_sin, y_sin, b')
t_c onst1 = 0:0.01:1;
y_const1 = 0 * ones(size(t_const1));
t_c onst2 = 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')
t_c onstr = (-2) : 0.01 : 0;
y_constr = 0 * ones(size(t_constr));
t_s awr = 0:0.01:2;
k = (0-2)/(0-2)
```

```
\begin{split} & \text{delay} = 0; \\ & y_s awr = k*(t_s awr - delay); \\ & t_r elu = [t_c onstr, t_s awr]; \\ & y_r elu = [y_c onstr, y_s awr]; \\ & \text{plot}(t_r elu, y_r elu,'m') \\ & \text{axis}([-2\ 2\ -2\ 2]) \\ & \text{legend}('\text{ld'}, '\text{Sigmoid'}, '\text{tanh'}, '\text{Treshold'}, '\text{ReLu'}) \\ & z = \text{plot}(t_r elu, y_r elu) \\ & z = \text{get}(z, '\text{Parent'}); \\ & \text{set}(za, '\text{XTick'}, [-2\ -1\ 0\ 1\ 2]); \\ & \text{set}(za, '\text{YTick'}, [-2\ -1\ 0\ 1\ 2]); \\ \end{split}
```

