%% AND

close all; clear all ;clc

net = newp([0 1;-2 2], 1);

A = [0 0 1 1];

B = [1 0 1 0];

P = [A;B];

T = [0 0 1 0 ];

%net = init(net);

net.IW{1,1} = [8 8]; % ustawianie wag

net.b{1} = [6]

Wyj\_przed\_treningiem = sim(net,P)

net = train(net,P,T);

Wyj\_po\_treningu = sim(net,P)

%% NAND

close all; clear all ;clc

net = newp([0 1;-2 2], 1);

A = [0 1 0 1];

B = [0 0 1 1];

P = [A;B];

T = [1 1 1 0 ];

net = init(net);

Wyj\_przed\_treningiem = sim(net,P)

net = train(net,P,T);

Wyj\_po\_treningu = sim(net,P)

%% or

close all; clear all ;clc

net = newp([0 1;-2 2], 1);

A = [0 0 1 1];

B = [1 0 1 0];

P = [A;B];

T = [0 1 1 1 ];

%net = init(net);

net.IW{1,1} = [1 2]; % ustawianie wag

net.b{1} = [1]

Wyj\_przed\_treningiem = sim(net,P)

net = train(net,P,T);

Wyj\_po\_treningu = sim(net,P)

%% NOR

close all; clear all ;clc

net = newp([0 1;-2 2], 1);

A = [0 0 1 1];

B = [1 0 1 0];

P = [A;B];

T = [1 0 0 0 ];

net = init(net);

Wyj\_przed\_treningiem = sim(net,P)

net = train(net,P,T);

Wyj\_po\_treningu = sim(net,P)

%% EX-OR

close all; clear all ;clc

net = newp([0 1;-2 2], 1);

P2 = [0 0 1 1;0 1 0 1];

T2 = [1 0 0 1 ];

net = init(net);

Y = sim(net,P2)

net = train(net,P2,T2);

Y = sim(net,P2)