```
%% Questao 2
%% a)
clear
% Gerando dados
x1 = [0 \ 1 \ 0 \ 1 \ 0 \ 1 \ 0 \ 1];
x2 = [0 \ 0 \ 1 \ 1 \ 0 \ 0 \ 1 \ 1];
x3 = [0 \ 0 \ 0 \ 0 \ 1 \ 1 \ 1];
x = [x1; x2; x3];
f = xor(xor(x1, x2), x3);
padroes = [x; f]';
padroes = repmat(padroes, 5, 1);
ni = size(padroes,1);
padroes = padroes(randperm(ni),:);
% Treinando rede
net = newrbe(padroes(:,1:3)',padroes(:,4)');
%view(net)
% Simulando rede
y = sim(net, padroes(:, 1:3)')';
응응 b)
clear
x1 = -10:0.1:10;
x2 = -10:0.1:10;
x = zeros(1, length(x1));
for i=1:201
    x(i) = norm([x1(:,i) x2(:,i)]);
end
f = \sin(x.*pi)./(x.*pi);
padroes = [x; f]';
net = newrbe(padroes(:,1)',padroes(:,2)');
y = sim(net, padroes(:, 1)')';
응응 C)
clear
x1 = -10:0.1:10;
x2 = -10:0.1:10;
x = [x1; x2];
f = x1.^2 + x2.^2 - 2.*x1.*x2 + x1 + x2 - 1;
padroes = [x; f]';
net = newrbe(padroes(:,1:2)',padroes(:,3)');
y = sim(net, padroes(:, 1:2)')';
```