% with the following function non linear constraints can be defined

% the name of the function is nlc\_eng (non linear constraints\_english)

% the function (m-file) must be saved in the current directory

function [c,ceq]=nlc\_eng(x)

% c is the expression of the nonlinear inequality constraints

% with more then 1 constraints create a new row with ;

% if the constraint is not present write c=[]

%%c=[];

c=[x(1)^2+x(2)^2-4;2\*x(1)-x(2)];

% ceq is the expression of the nonlinear equality constraints

% with more then 1 constraint create a new row with ;

% if the constraint is not present write ceq=[]

ceq=[];