Práctica 4:

Programación en

MATLAB/OCTAVE

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Todos realizados menos el ejercicio 10 y 11

***Ejercicio 1***

***Ejercicio 2***

***Ejercicio 3***

***Ejercicio 4***

***Ejercicio 5***

***Ejercicio 6***

***Ejercicio 7***

***Ejercicio 8***

clc

A=[1 2 1 0; 2 1 -1 1; 1 3 -1 1];

V=[0 0 0 0];

disp('Matriz original');

disp(A);

format rat;

V(1,:)=A(1,:);

A(1,:)=A(2,:);

A(2,:)=V(1,:);

fprintf('El primer pivote: %d\n',A(1,1));

A(2,:)=A(1,:)\*(-1/2)+A(2,:);

A(3,:)=A(1,:)\*(-1/2)+A(3,:);

V(1,:)=A(2,:);

A(2,:)=A(3,:);

A(3,:)=V(1,:);

fprintf('El segundo pivote: %f\n',A(2,2));

A(3,:)=A(2,:)\*(-3)+A(3,:)\*5;

A(2,:)=A(2,:)/(5/2);

A(3,:)=A(3,:)\*(1/9);

fprintf('El tercer pivote: %f\n',A(3,3));

A(2,:)=A(2,:)+A(3,:)\*(1/5);

A(1,:)=A(1,:)/2;

fprintf('Cuarto pivote: %f\n',A(2,2));

A(1,:)=A(1,:)+A(2,:)\*(-1/2);

fprintf('Quinto pivote: %f\n',A(3,3));

fprintf('Matriz reducida: \n');

A(1,:)=A(1,:)+A(3,:)\*(1/2)

***Ejercicio 9***