

Matriz:

$$3x_1 - 0.1x_2 - 0.2x_3 = 7.85$$

$$0.1x_1 + 7x_2 - 0.3x_3 = -19.3$$

$$0.3x_1 - 0.2x_2 + 10x_3 = 7.14$$

Método Gauss-Jordan

```
=== Solución del sistema ===  
x1 = 2.56315  
x2 = -2.76883  
x3 = 0.58173
```

Método factorización LU

```
=== Solución del sistema ===  
x1 = 2.563154  
x2 = -2.768828  
x3 = 0.581729
```

Método Gauss-Seidel

```
=== Solucion del sistema ===  
x1 = 2.563154  
x2 = -2.768828  
x3 = 0.581729
```