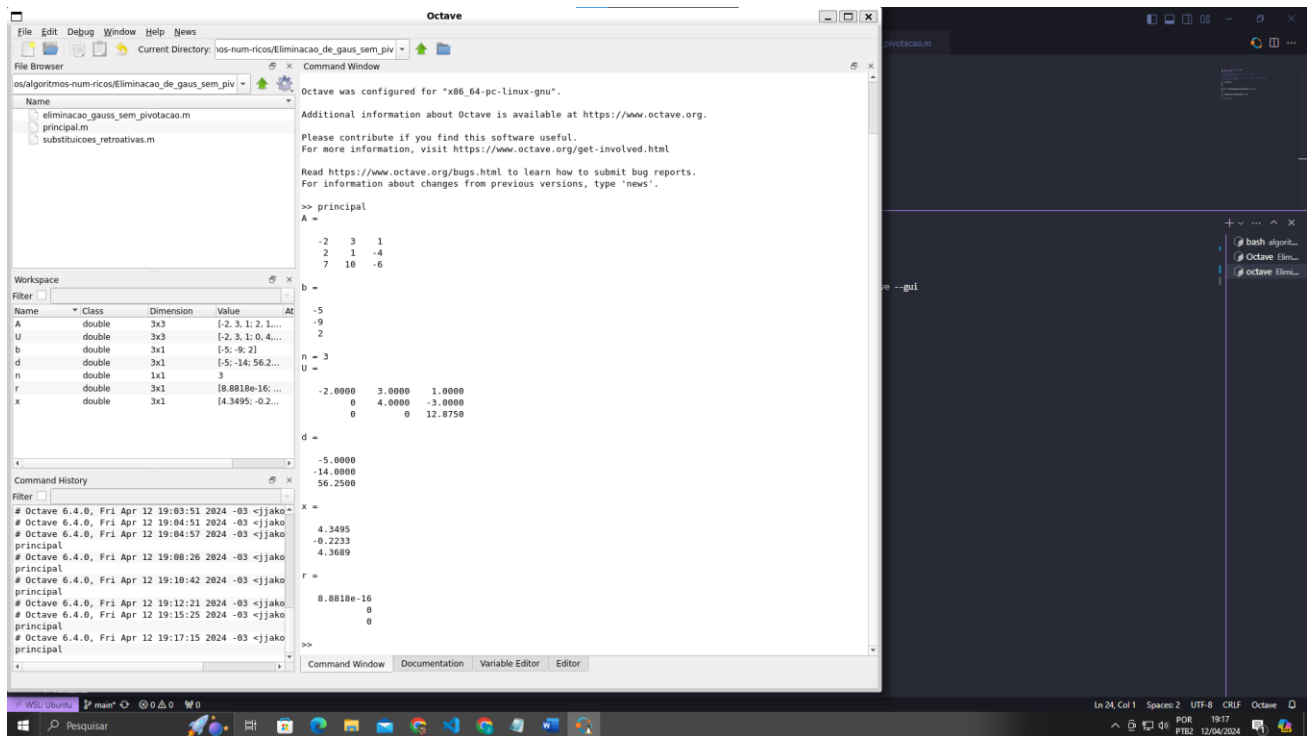


Resultados do Programa do Método da Eliminação de Gauss sem Pivotação Parcial

1) Solução do sistema linear $Ax=b$ abaixo.

$$A = \begin{bmatrix} -2 & 3 & 1 \\ 2 & 1 & -4 \\ 7 & 10 & -6 \end{bmatrix}$$

$$b = \begin{bmatrix} -5 \\ -9 \\ 2 \end{bmatrix}$$



```
Octave was configured for "x86_64-linux-gnu".
Additional information about Octave is available at https://www.octave.org.
Please contribute if you find this software useful.
For more information, visit https://www.octave.org/get-involved.html
Read https://www.octave.org/bugs.html to learn how to submit bug reports.
For information about changes from previous versions, type 'news'.

>> principal
A =
   -2    3    1
    2    1   -4
    7   10   -6

b =
   -5
   -9
    2

n = 3
U =
  -2.0000   3.0000   1.0000
    0   4.0000  -3.0000
    0    0  12.0750

d =
  -5.0000
 -14.0000
  56.2500

x =
   4.3495
  -0.2233
   4.3689

r =
  8.8818e-16
    0
    0

>>
```

Name	Class	Dimension	Value	At
A	double	3x3	[-2, 3, 1; 2, 1, -4; 7, 10, -6]	
U	double	3x3	[-2, 3, 1; 0, 4, -3; 0, 0, 12.075]	
b	double	3x1	[-5; -9; 2]	
d	double	3x1	[-5; -14; 56.25]	
n	double	1x1	3	
r	double	3x1	[8.8818e-16; 0; 0]	
x	double	3x1	[4.3495; -0.2233; 4.3689]	

2) Solução do sistema linear $Ax=b$ abaixo.

$$A = [1 \ -3 \ 5 \ 6; \ -9 \ 4 \ -1 \ 0; \ 3 \ 2 \ -2 \ 7; \ 1 \ 2 \ 5 \ -4]$$

$$b = [17; \ 29; \ -11; \ 7]$$

Workspace Table:

Name	Class	Dimension	Value	At
A	double	4x4	[1, -3, 5, 6; ...]	
b	double	4x1	[17; 29; -11; 7]	
n	double	1x1	4	
r	double	4x1	[0.10658e-14; ...]	
x	double	4x1	[-3.6452; ...]	

```

>> principal
A =
   1  -3   5   6
  -9   4  -1   0
   3   2  -2   7
   1   2   5  -4

b =
   17
   29
  -11
    7

n = 4
U =
   1.0000  -3.0000   5.0000   6.0000
         0  -23.0000  44.0000  54.0000
         0   0   4.8435  14.8261
         0   0   0  -33.3333

d =
  17.000
 182.000
  25.843
 -29.677

x =
 -3.6452
 -0.2194
  2.9290
  0.8903

r =
   1.0658e-14
         0
         0
         0
  
```

3) Solução do sistema linear $Ax=b$ abaixo.

$$A = [0 \ 1 \ 3 \ 2 \ 4; \ 8 \ -2 \ 9 \ -1 \ 2; \ 5 \ 1 \ 1 \ 7 \ 2; \ -2 \ 4 \ 5 \ 1 \ 0; \ 7 \ -3 \ 2 \ -4 \ 1]$$

$$b = [3; \ -5; \ 6; \ -1; \ 8]$$

Workspace Table:

Name	Class	Dimension	Value	At
A	double	5x5	[0, 1, 3, 2, 4; ...]	
b	double	5x1	[3; -5; 6; -1; 8]	
n	double	1x1	5	
r	double	5x1	[NaN; Inf; Inf; ...]	
x	double	5x1	[-Inf; 4.4843; ...]	

```

>> principal
A =
   0   1   3   2   4
   8  -2   9  -1   2
   5   1   1   7   2
  -2   4   5   1   0
   7  -3   2  -4   1

b =
    3
   -5
    6
   -1
    8

n = 5
U =
   0.0000   1.0000   3.0000   2.0000   4.0000
   8.0000  -2.0000   9.0000  -1.0000   2.0000
   5.0000   0   5.5000   6.5000   3.0000
  -2.0000   0   0  -28.1818  -8.5455
   7.0000   0   0   0   0.9097

d =
   3.0000
  -5.0000
   3.5000
 -25.6364
  12.7290

x =
  -Inf
  4.4843
 -3.8567
 -3.3233
 13.9929

r =
   NaN
   Inf
   Inf
  -Inf
   Inf
  
```