

Práctica 1.1

Rebeca Fernández Tirado

October 31, 2022

Activities

1. Find the power set...

$$R^3 \text{ of } R = \{(1, 1), (1, 2), (2, 3), (3, 4)\}$$

$$R^3 = R^2 * R = R * R * R$$

$$\begin{pmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 \end{pmatrix} \quad (1)$$

$$\begin{pmatrix} 1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{pmatrix} \quad (2)$$

$$\begin{pmatrix} 1 & 1 & 1 & 1 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{pmatrix} \quad (3)$$

$$(1) : R$$

$$(2) : R^2$$

$$(3) : R^3$$

He comprobado la solución en Octave.

de pantalla de 2022-10-30 02-14-31.png de pantalla de 2022-10-30
02-14-31.pngCaptura de pantalla de 2022-10-30 02-14-31.png

Actividades GNU Octave dom 02:14 Octave

Archivo Editar Depurar Ventana Ayuda Noticias

Directorio actual: /home/alumno/talfuma

Explorador de archivos

/home/alumno/talfuma

Nombre

- On1m.gra
- software
 - read.me
 - Whilelanguage
 - util
 - Turingmachine
 - regularexpressions
 - recursivefunctions
 - maths
 - grammar
 - R.gra
 - producir.m
 - makerule.m
 - leergramatica.m
 - g2.gra
 - g1.gra
 - lsystems
 - automata
 - lecturenotes
 - whiloadoctu

Espacio de trabajo

Filtrar

Nombre	Clase	Dimensión	Valor	Atributo
ans	cell	1x4	...	
G	struct	1x1	...	

Historial de comandos

Filtrar

```
help <unionrelation.m>
help <"unionrelation.m">
help <unionrelation.m>
help
<unionrelation.m>
helpo <script>
```

Ventana de comandos

```
T = abc
P =
{
  [1,1] = A
  [2,1] = BA
  [3,1] = B
  [4,1] = B
  [5,1] = B
  [1,2] = baaBB
  [2,2] = ccaabB
  [3,2] =
  [4,2] = aa
  [5,2] = A
}
S = A

>> producir(G, 10);

A => baaBB => baaaaB => baaaaA => baaaabaaBB => baaaabaaBA => baaaabaaccaabB =
> baaaabaaccaabaa

>> producir(g1, 10);
error: 'g1' undefined near line 1 column 10
>> producir('g1');

A => baaBB => baaB => baaaa

>> developsystem('g1_2.json', 3)
error: 'developsystem' undefined near line 1 column 1
>>
>> developsystem('g1_2.json', 3)
error: 'developsystem' undefined near line 1 column 1
>> developsystem('g2.json', 7);
error: 'developsystem' undefined near line 1 column 1
>> developsystem('g2.json', 7)
error: 'developsystem' undefined near line 1 column 1
>> powerrelation([['1', '1'], ['1', '2'], ['2', '3'], ['3', '4']], 3)
ans =
{
  [1,1] = 11
  [1,2] = 12
  [1,3] = 13
  [1,4] = 14
}
```

Ventana de comandos Editor Documentación