

# Activities

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2 Informatica A

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- 1 Find the power set  $R^3$  of  $R = \{(1,1),(1,2),(2,3),(3,4)\}$ . Check your answer with the script `powerrelation.m` and write a  $\text{\LaTeX}$  document with the solution step by step

Para hallar la potencia tendremos que calcular antes la potencia al cuadrado:

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

Desde esta potencia ya sabremos como calcular la potencia al cubo:

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

- 2 Within the folder “files”, find a  $\text{\TeX}$  file in whose content appears the string code `textbackslash usepackage {amsthm, amsmath}`. Note: use `grep` and escape the special characters with `textbackslash`. Complete the proof and answer the question.

Consideremos  $L = \{w \in \{a,b\}^* : w \text{ no termina en } ab\}$ . Un expresin regular que genera L es:

$$\epsilon + b + (a + b)^*(a + bb)$$