PRÁCTICA 1 - TALF

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Octubre, 2022

Activities

1. Find the power set R3 of R = (1, 1),(1, 2),(2, 3),(3, 4). Check your answer with the script powerrelation.m and write a LATEX document with the solution step by step.

Calculamos $R^2 = R \circ R$ y luego $R^3 = R^2 \circ R$:

Para ello, utilizamos la propiedad que dice:

$$(a, b) \in R \land (b, c) \in R \to (a, c) \in R$$

$1R1 \land 1R2 \to 1R1$ y $1R2$
$1R2 \land 2R3 \to 1R3$
$2R3 \land 3R4 \to 2R4$

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

$1R1 \land 1R2 \to 1R1$ y $1R2$
$1R2 \land 1R3 \to 1R3$
$1R2 \land 2R4 \to 1R4$

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