

Examen RelBin

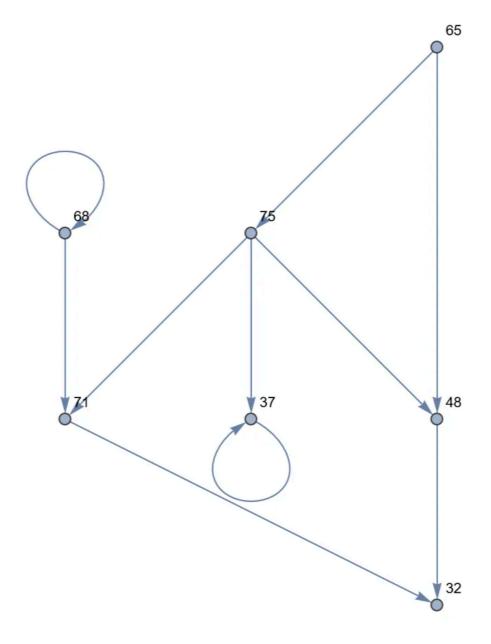
:≡ Etiquetas

▼ Pregunta #1

Sea:

A=71,75,68,74,32,37,65,48

Suponga que la relación ${\cal R}$ sobre ${\cal A}$ es tal que su digrafo corresponde a:



Complete la matriz M_R asociada a esta relación tomando el orden definitivo en A:

Reflexiva: _____

Transitiva:

Simétrica:

Antisimétrica:

Equivalencia:

Orden Parcial: _____

▼ Respuesta

▼ Pregunta #2

Sea:

A=41,75,76,78,98

Sobre A se defina la relación R cuya matriz de adyacencia es:

Determine los pares ordenados de la relación:



Nota: Respuesta única

[{{41, 41}, {41, 76}, {75, 41}, {75, 98}, {76, 76}, {76, 78}, {76, 98}, {78, 41}, {78, 76}, {78, 98}, {98, 41}, {98, 75}, {98, 78}, {98, 98}}

[{{41, 48}, {41, 76}, {75, 41}, {75, 98}, {76, 76}, {76, 78}, {76, 98}, {78, 41}, {78, 76}, {78, 98}, {98, 41}, {98, 75}, {98, 78}, {98, 98}}

[{\{41, 41\}, \{41, 76\}, \{75, 41\}, \{76, 76\}, \{76, 76\}, \{76, 78\}, \{76, 98\}, \{78, 41\}, \{78, 76\}, \{98, 41\}, \{98, 75\}, \{98, 76\}, \{98, 76\}, \{98, 76\}, \{98, 76\}, \{98, 76\}, \{98, 76\}, \{98, 98\}

$ \ \ \ \ \ \ \ \ \ \ \ \ \ $
Reflexiva:
Transitiva: Simétrica:
Antisimétrica:
Equivalencia:
Orden Parcial:

▼ Respuesta

 $a: \{\{41,\,41\},\,\{41,\,76\},\,\{75,\,41\},\,\{75,\,98\},\,\{76,\,76\},\,\{76,\,78\},\,\{76,\,98\},\,\{78,\,41\},\,\{78,\,76\},\,\{78,\,98\},\,\{98,\,41\},\,\{98,\,75\},\,\{98,\,78\},\,\{98,\,98\}\}$

▼ Pregunta #3

Sea:

A={-801, -796, -791,...., 1194, 1199, 1204} B={-3012, -2989, -2966,...,-68, -45, -22, 1} Indique el numero de elementos con A x B:

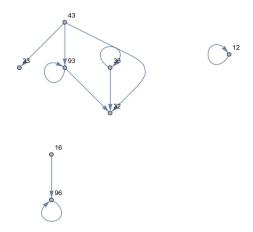
▼ Respuesta

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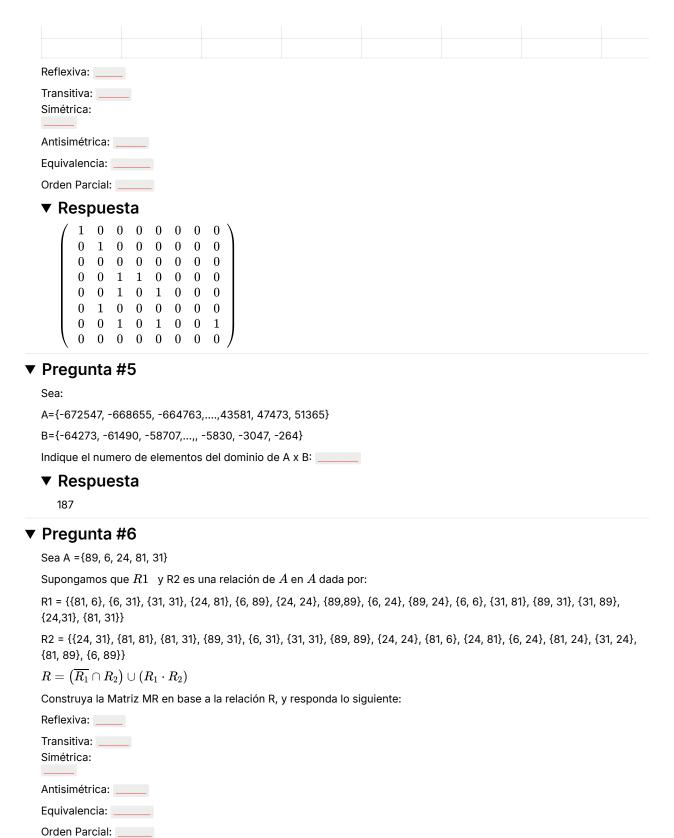
▼ Pregunta #4

Sea:

A = 12, 96, 32, 36, 93, 16, 43, 33



Complete la matriz en ${\cal M}_R$ asociada a esta relación tomando el orden definido en A.



▼ Respuesta

{{6, 24}, {6, 31}, {6, 81}, {6, 89}, {24, 6}, {24, 24}, {24, 31}, {24, 81}, {24, 89}, {31, 6}, {31, 24}, {31, 31}, {31, 81}, {31,89}, {81, 24}, {81, 31}, {81, 81}, {81, 89}, {89, 24}, {89,31}, {89, 81}, {89, 89}}

▼ Pregunta #7

Sea A={44, 28, 91, 38, 74}

Supongamos que $R1\,\,\,$ y R2 es una relación de A en A dada por:

R1={{91, 28}, {74, 28}, {28, 91}, {28, 44}, {38, 91}, {44, 28}, {28,28}, {38, 28}, {91, 74}, {74, 91}, {74, 44}, {44, 74}, {44, 91}, {38, 74}, {74, 38}}

R2= {{28, 28}, {38, 44}, {74, 74}, {74, 91}, {38, 91}, {74, 28}, {91, 74}, {44, 44}, {38, 28}, {44, 91}, {91, 44}, {74, 44}, {44, 74}, {28, 91}, {28, 91}, {28, 74}}

 $R = \left(R_2 \cdot R_1^{-1}
ight) \cap \left(\overline{R_2} \cup R_1
ight)$

La relación R esta dada por los siguientes pares ordenados:

 \square {{28, 28}, {28, 38}, {28, 44}, {28, 91}, {38, 28}, {38, 38}, {38, 74}, {38, 91}, {44, 28}, {44, 38}, {44, 74}, {44, 91}, {74, 28}, {74, 38}, {74, 44}, {74, 91}, {91, 28}, {91, 38}, {91, 74}}

[\ \{28, 28\}, \{28, 38\}, \{28, 44\}, \{28, 91\}, \{38, 28\}, \{38, 38\}, \{38, 74\}, \{38, 91\}, \{44, 28\}, \{44, 38\}, \{44, 74\}, \{44, 91\}, \{74, 28\}, \{74, 38\}, \{74, 44\}, \{74, 91\}, \{91, 28\}, \{91, 74\}, \{92, 91\}

Construya la Matriz MR en base a la relación R, y responda lo siguiente:

Reflexiva: _____

Transitiva:

Simétrica:

Antisimétrica:

isimetrica.

Equivalencia: _____

Orden Parcial:

▼ Respuesta

{{28, 28}, {28, 38}, {28, 44}, {28, 91}, {38, 28}, {38, 38}, {38, 74}, {38, 91}, {44, 28}, {44, 38}, {44, 74}, {44, 91}, {74, 28}, {74, 38}, {74, 44}, {74, 91}, {91, 28}, {91, 74}, {91, 91}}

▼ Pregunta #8

Sea A={61, 77, 65, 7, 30, 5, 43, 32, 33}

R1={{30, 77}, {5, 32}, {77, 33}, {77, 7}, {30, 32}, {65, 33}, {7, 7}, {5, 7}, {33, 5}, {61, 61}, {65, 30}, {65, 65}, {77, 65}, {33, 61}, {61, 33}}

R2= {{43, 5}, {30, 61}, {65, 43}, {7, 77}, {30, 33}, {33, 7}, {65, 65}, {5, 61}, {32, 77}, {65, 32}, {43, 7}, {32, 30}, {7, 43}, {61, 5}, {61, 32}}

 $R = \left(\overline{R_1} \cdot R_2
ight) \cup \left(R_1^{-1} \cap R_2
ight)$

Clases de equivalencia:

▼ Respuesta

Examen RelBin 5

Ninguna.

¡Que la fuerza los acompañe!

Examen RelBin 6