Mth202 Quiz No 1 Solved by Iqra Azhar

MTH202

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Total marks 10

Solved by Iqra Azhar

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In the matrix representation of an irreflexive relation all the entries in the main diagonal are ....

zero.

Let R = { (1,1), (2,2), (3,3), (1,3) } be the relation on set A={1,2,3} then _____.

Select the correct option

R is reflexive and transitive

R is not reflexive and not transitive

R is not reflexive and transitive

R is reflexive and not transitive

Therefore, the correct option is

: "R is not reflexive and transitive."

MATH ZONE FOR VU

Let A = {1,2,3,…,50}and B = {2,4,6,8,10}.Then the Cartesian product of A and B has _____elements.

250 elements.

The union of the transitive binary relations R = {(1,2), (1,3), (2,2), (3,3), (4,2), (4,3)} and S = {(2,1), (2,4), (3,3)} on the set A = {1,2,3,4} is given by R ∪ S = {(1,2), (1,3), (2,1), (2,2), (2,4), (3,3), (4,2), (4,3)}then R ∪ S is_____?

Select the correct option

not transitive

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transitive

correct option is not transitive.

In the directed graph of an antisymmetric relation there is .....pair of arrows between two distinct elements of the set.

one

25 ≡ 1(mod 3) means that 3 divides ……..

25−1

MATH ZONE FOR VU

Let A = {0, 1, 2} and R = {(0,2), (1,1), (2,0)} be a relation on A. Then which of the following ordered pairs are needed to make it transitive?

(0,0)

Let A = {2, 3, 4} and B = {2,6,8}and let R be the “divides” relation from A to Bi.e. for all (a,b) belong to (Cartesian product of A and B),a R b iff a | b (a divides b).Then

R={(2,2),(2,6),(2,8),(3,6),(4,2),(4,6),(4,8)}

Define a relation R = { (1,1), (2,2), (3,3), (1,3), (3,2) } then relation is_____.

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not reflexive and not symmetric, but it is transitive.

For any set A, the Cartesian product of A and A is known as _ universal relation empty relation

universal relation.

Let A = {1,2,3} and B = {0,1,2} and C = {a,b}R = {(1,0),(1,2),(3,1),(3,2)}S = {(0,b),(1,a),(2,b)}Composite of R and S = _____ .

R∘S={(1,b),(1,b),(3,a),(3,b)}

Let R be a relation on a set A. If R is symmetric then its compliment is _____ .

So, the complement of a symmetric relation is an asymmetric relation.

MATH ZONE FOR VU

For (2x-3, 4y+2)=(1,10), what will be the value of x and y?

x=2 y=2.

Consider the relations R = {(1,3), (1,4), (2,3), (2,4), (3,1), (3,4)} on the set A={1,2,3,4} then R is _____.

Select the correct option

reflexive

both reflexive and irreflexive

irreflexive

None of the above

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irreflexive.

Let A = {1, 2, 3, 4} and define a relation R on A by R = {(1, 1), (1, 2), (1, 3), (2, 3)}.Then which one of the following is a correct statement about R:

:It is neither reflexive nor symmetric nor transitive.

Let A = {1,2,3,4} and R = {(1,2), (2,3), (3,3), (3,4)} be a relation on A. Then which one of the following ordered pair has made R not an irreflexive relation?

So, the ordered pair (3,3)(3,3) has made R not an irreflexive relation.

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