MTH104

Quiz No 4

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SOLVED BY

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Let S be a partially ordered set, and let A be a subset of S. If A has an upper bound ,we say A is bounded above.Select the correct option

Given statement is true.

Given statement is false.

The given statement is true:

Let S be a partially ordered set, and let A be a subset of S. An element m in S is called an upper bound of A if m succeeds every element of A, that is, for every x ϵ A, we have x ≤ m.

Select the correct option

Given statement is false.

Given statement is true.

The given statement is true:

If an upper bound of A succeeds every other upper bound of A, then it is called the supremum of ASelect the correct option

Given statement is true.

Given statement is false.

The given statement is true:

Let S be a partially ordered set, and let A be a subset of S. If A has a lower bound we say A is bounded below.Select the correct option

Given statement is false.

Given statement is true.

The given statement is true:

set S(A) denote the collection of all initial segments of elements in a well-ordered set A, and let S(A) be ordered by set inclusion. Then A is similar to S(A) and, in particular, the function f : A →S(A) defined by f(x) = s(x) is a similarity mapping between A and S(A).

Select the correct option

Given statement is false

.Given statement is true.

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The ordinal number of set {1,2,3} is _____.Select the correct option

2

None of these.

1

3

The correct option is: 3

Suppose A and B are well-ordered sets, and suppose A is similar to an initial segment of B. Then A is said to be _____ than B.Select the correct option

Longer

shorter

The correct option is shorter.

Let A be a well-ordered set. Then every subset of A is well-ordered.Select the correct option

Given statement is false

.Given statement is true.

The given statement is true:

set S be a partially ordered set, and let A be a subset of S. An element n in S is called a lower bound of A if n precedes every element of A, that is, for every y ϵ A, we have y ≥ n.Select the correct option

Given statement is false.

Given statement is true.

The given statement is true:

The ordinal number of {1,2,3,4} is _____.Select the correct option

1

3

2

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4

The correct option is: 4

The ordinal number of empty set is _____.Select the correct option

0

1

0

Let A be a well-ordered set. The initial segment s(a) of an element a ϵ A consists of all elements in A which strictly precedes a.Select the correct option

Given statement is true.

Given statement is false.

The given statement is true:

The ordinal number of the set P of counting numbers is denoted by ω.Select the correct option

True

false

The given statement is true:

Suppose X and Y are partially ordered sets. A one-to-one(injective) function f :X → Y is called a similar mapping from X into Y if f preserves the order relation, that is, if the following conditions holds for any pair a, b ϵ X: a ≤ b in X if and only if f(a) ≤ f(b) in Y.Select the correct option

Given statement is false.

Given statement is true.

The given statement is true:

The ordinal number of set {a,{b,c}} is _____.Select the correct option

1

0

3

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2

two

A is bounded if _____.Select the correct option

A has only an upper bound

.A has an upper and lower bound.

None of these.

A has only a lower bound.

A has an upper and lower bound.