MTH202

Quiz 2

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Total marks 10

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Given a set X, define a function i from X to X by i(x) = x from all x belonging to X.Then _____ .

identity function

Let A be a set with m elements and B be a set with n elements then the number of elements inA×Bare ……Select the correct option

m·n.

Why the function f:Z→R defined by f(x)=1x^2−25 is not well defined?Select the correct option

Because f is not defined for 5 and -5.

Because f is not defined for x>0.

Because f gives imaginary values for all integers,

Because f is not defined for x<0.

f is not defined for 5 and -5."

If f(x)=sin−1(x) and g(x)=sinx then gof(x) is.....Select the correct option

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X

Which of the following logical connective is not a binary operation?

"negation" or "NOT" operation.

Consider a function f defined on X = {1, 2, 3, 4} by f (1) = 1, f (2) = 2, f (3) = 3 and f (4) = 4 then _____.Select the correct option

f is an identity function.

A function f:R+→R defined by f(x)=log(x) is a real valued function .Select the correct option

False

True

"True"

Let f:R→R is one to one function then c.f,c≠0 is also one to one function

Select the correct option

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True

False

The statement is false.

Composition of a function is a commutative operation. T F

The statement is false

Letf(x)=2xand g(x)=x+2definefunctionsfandgfromRtoR,then(f−g)(x)is____. Select the correct option

x−2

which of the following is the reason for a function f(x)=x2 for all x∈Z for being 'f' not one-to-one?

Select the correct option

because range is not equal to co domain.

because range is equal to co domain.

because two different elements of domain are mapped onto the same element of range

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because function is not defined for all values of the domain

"Because two different elements of the domain are mapped onto the same element of the range."

A function whose range consists of only one element is called…….

A function whose range consists of only one element is called a constant function.

Given a set X, define a function i from X to X by i(x) = x from all x belonging to X.Then _____ . I IS Ii both injective and surjective

So, the correct answer is "both" (injective and surjective).

A constant function is surjective if and only if.....

its codomain is a single element

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A set is called finite if, and only if, it is the _____ or there is _____ .

empty set or there is one-to-one correspondence

Let f(2)=3,g(2)=3,f(4)=1 and g(4)=2 then the value of fog(4) is .....Select the

3Therefore, the correct option is 3.

Why the function f:Z→R defined by f(x)=1x2−25 is not well defined?

Select the correct option

Because f is not defined for x<0.

Because f is not defined for 5 and -5

.Because f is not defined for x>0.

Because f gives imaginary values for all integers,

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