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	Question Type Ji	Question J↑	A 11 E	11	С	J1	D 11	Answer 🎵	Remark
	FBQ	Solve lim $\left(\frac{n+1}{n\sqrt{n}}\right)$ is	0						eExam
	FBQ	Let A and B be two nonempty sets then $A\cap B=\phi$ shows that A and B are	comliment						еЕхат
	FBQ	Determine the number of elements in P(S), the collection of all subsets of S, if $S:=\{1,2,3,4,5\}$	32						еЕхат
	FBQ	Given that $S:=\{1\!-\!(-1)^n/n:n\epsilon N\}$, find $\sup S$	2						eExam

FBC		Find the limit of x_n , given that $x_1:=8$, and $x_{n+1}:=rac{1}{2}x_n+2$, for $n\epsilon N$	4	eExam
FB0	3Q	$lim((n!)^{1/n^2})$	1	eExam
FBO		$\left(\frac{(-1)^n}{n+2}\right)$ is	0	eExam
FBG		Determine the number of elements in the power set $P(S)$, the collection of all subsets of S , for each of the set: $S:=\{a,b,c,d,e,f,g,h\}$	256	еЕхат
FBG		Let $S:\{1,2\}$ and $T:\{a,b,c\}$. Determine the number of different surjections from T onto S	6	eExam

	FBQ	If A is a set with	m-2					eExam
		$m\epsilon N$ elements and $C\subseteq A$ is a set with 2 elements, then A\C has how many elements						
)	FBQ	\$\$ 5^{2n} - 1 \$\$ is divisible by for all \$\$ n\epsilon N\$\$	8					eExam
)	FBQ	\$\$ n^{3} + (n+1)^{3} + (n+2)^{3} \$\$ is divisible by for all \$\$ n\epsilon N\$\$	9					eExam
)	FBQ	Find all natural numbers n such that \$\$ n^{2} < 2^{n}\$\$ will be true	1					eExam
	FBQ	Let \$\$g(x):= x^{2}\$\$ \$\$f(x):=x+2\$\$ for \$\$x\epsilon R\$\$ and let h be the composite function h:=g o f What is the inverse image \$\$ h^{-1}(G)\$\$ of \$\$G:= \left \{ x \epsilon R: 0 \leq x \leq 4 \right \} \$\$	[-4,0]					eExam
	FBQ	Let \$\$ A:=B:= \left \ {x\epsilon R:-1\leq x \leq 1 \right \}\$\$ and consider the subset \$\$C:= \left \{ x^{2} + y^{2} = 1 \right \}\$\$ of A x B. is this set a function? Yes or No	No					еЕхат
)	MCQ	The property of a natural numbers which states that every nonempty subset of a natural number has a least element is termed	Divergent	Convergent	dynamic	Well- ordering	D	eExam

MCQ	Calculate the value of summation \$\$\sum_{2}^{\infty} \left (2/7 \right)^{n}\$\$	4/35	13/24	5/36	15/32	A	eExam
MCQ	Given sequences \$\$ \left (1-\left (-1 \right)^{n} +1/n \right)\$\$ and (ii) \$\$ \left (sin n\pi/4 \right)\$\$. Which of the following is/are true about the two sequences	both sequence are convergent	(i) converge and the(ii) diverge	both sequence are not well defined	both sequence are divergent	D	eExam
MCQ	find all \$\$ x \epsilon R\$\$ that satisfy the inequality 4 < x+2 + x-1 <5	\$\$\left \{ x: -3 <x 2<br="" <-5="">or 3/2 < x < 2 \right \}\$\$</x>	\$\$\left \{ x: -4 <x 2<br="" <-7="">or 3/2 < x < 2 \right \}\$\$</x>	\$\$\left \{ x: -3 <x 2<br="" <-5="">or- 6 < x < 1 \right \}\$\$</x>	\$\$\left \{ x: -8 <x <-5 or 3/2 < x < 3 \right \}\$\$</x 	Α	eExam
MCQ	Find all \$\$ x \epsilon R\$\$ satisfying x-1 > x+1	x>0	x<0	x=0	x=2	В	eExam
MCQ	Find all real numbers x that satisfy the following inequality \$\$ x^{2} > 3x + 4 \$\$.	\$\$\left \{ x: x > 4 or x > 1 \right \}\$\$	\$\$\left \{ x: x > 4 or x <2 \right \}\$\$	\$\$\left \{ x: x < 4 or x > -1 \right \}\$\$	\$\$\left \{ x: x > 4 or x > -1 \right \}\$\$	D	eExam
MCQ	Given that \$\$ S:= \left \{ 1 - (-1)^{n}/n: n\epsilon N \right \}\$\$, find inf S	1/2	2/3	1	2	A	eExam
MCQ	Find the inf S, given that \$\$\left \{ x \epsilon R: x \geq 0 \right \}\$\$\$	1	2	0	4	С	eExam
MCQ	The first five terms of the inductively defined sequence \$\$z_{1}:=1\$\$, \$\$z_{2}:=2\$\$, \$\$z_{n+2}:=(z_{n+1}+ z_{n})/(z_{n+1} - z_{n})\$\$	1,3,4,5,7	0,2,4,6,8	3,4,6,7,9	1,2,3,5,4	D	eExam
MCQ	Find the first four terms of the sequence (x_{n}) is defined by: $x_{n} := 1 + (-1)^{n}$ \$	0,2,0,2	1,3,0,4	3,5,7,9	1,2,5,6	A	eExam
MCQ	lim \$\$\left (\frac{\sqrt{n}-1} {\sqrt{n}+1} \right)\$\$	0	3	1	5	С	eExam
MCQ	Let \$\$S: \left \{ 1,2 \right \}\$\$ and \$\$T : \left \{ a, b, c \right \}\$\$. Determine the number of different injections from S into T	6	10	4	7	A	eExam

MCQ	Suppose that S and T are sets and that \$\$T \subseteq S \$\$, which of the following is/are 'true? (i) If S is a finite set, then T is a finite set. (ii) If T is an infinite set, then S is an infinite set, (iii) If S is a finite set, then T is a infinite set. (iv) If T is an infinite set, then S is a finite set, then S is a finite set.	(i) and (iii)	(ii) and (iv)	(iii) and (iv)	(i) and (ii)	D	eExam
MCQ	If A is a set with m elements and B is a set with n elements and if \$\$A\cap B= \phi\$\$, how many elements is in \$\$A\cup B\$\$.	mn	m+n	m-n	2mn	В	eExam
MCQ	\$\$ 5^{n} - 4n - 1 \$\$ is divisible by for all \$\$ n\epsilon N\$\$	12	15	16	23	С	eExam
MCQ	Find all natural numbers n such that \$\$ n^{2} < 2^{n}\$\$ will be false	2,3,4	1,2,3	1,3,4	1,5,7	A	eExam
MCQ	Given that \$\$ a, b\epsilon R\$\$ with a < b, find an explicit bijection of \$\$ A:= \left \{ x:a <x \$\$b:="\left" 0="" 1="" <="" <y="" \right="" \{="" \}\$\$="" \}\$\$<="" b="" onto="" td="" y:=""><td>f(x):= (x- a)/(b)</td><td>f(x):= (x- a)/(b-a)</td><td>f(x):= (a)/(b-a)</td><td>f(x):= a/b</td><td>В</td><td>eExam</td></x>	f(x):= (x- a)/(b)	f(x):= (x- a)/(b-a)	f(x):= (a)/(b-a)	f(x):= a/b	В	eExam
MCQ	Let \$\$g(x):= x^{2}\$\$ and \$\$f(x):=x+2\$\$ for \$\$x\cdotepsilon R\$\$, and let h be the composite function h:=g o f. What is the direct image h(E) of \$\$E:= \left \{ x \epsilon R: 0 \leq x \leq 1 \right \} \$\$\$	[3,7]	[2,9]	[-5,8]	[4,9]	D	eExam
MCQ	Given that x, y, z be any element of R, which of the following assertion is/are correct (i) if $z!=0$, then $z^{2} > 0$, (ii) if $z > y$, then $z > y$	(i) and (iii)	(ii) and (iii)	(i) and (ii)	only (iii)	A	eExam
MCQ	If y and x are elements in R with y+x=x, implies y=0, and we are able to show that $y=y+0=y+(x+(-x))=(y+x)+(-x)=x+(-x)=0$, which of the following is establish by the mathematical statement?	the uniqueness of element x	negativity	the uniqueness of element y	positivity	С	eExam

Showing 1 to 35 of 35 entries

Previous

Next