

FBQ1: A convergent sequence has only _____ limit(s)

Answer: One

FBQ2: If a sequence $\{X_n\}$ is convergent then it is _____

Answer: Bounded

FBQ3: A sequence $\{(-1)^n\}$ is _____

Answer: Bounded

FBQ4: A sequence is _____

Answer: convergent

FBQ5: The sequence converges to _____

Answer: 0.5

FBQ6: is _____

Answer: 0.5

FBQ7: Every Cauchy sequence is _____.

Answer: Bounded

FBQ8: A sequence of real number $\{X_n\}$ is Cauchy if and only if _____

Answer: Convergent

FBQ9: Let $\{X_n\}$ be a convergent sequence. is _____

Answer: X

FBQ10: If a sequence is decreasing, then it may converge to its _____

Answer: Infimum

FBQ11: If a sequence is increasing, then it may converge to its _____

Answer: Supremum

FBQ12: A product of two convergent sequences is _____

Answer: Convergent

FBQ13: Let is _____ (Ans to 3 decimal point)

Answer: 1.618

FBQ14: A sequence of real numbers that converges to zero is known as _____ sequence

Answer: Null

FBQ15: If a sequence does not have a limit, it is also called an _____ sequence

Answer: Oscillating

FBQ16: Every set of real numbers has a minimum _____ (True or False)

Answer: False

FBQ17: Every set of real numbers has a maximum_____ (True or False)
Answer: False

FBQ18: Every set of real numbers which is bounded above has a maximum_____ (True or False)
Answer: False

FBQ19: Every set of real numbers which is bounded below has a minimum_____ (True or False)
Answer: False

FBQ20: There exists a set of real numbers with a supremum but no maximum_____ (True or False)
Answer: True

FBQ21: The is _____
Answer: 2

FBQ22: " + " is _____ operation on
Answer: binary operation

FBQ23: If a real number is not rational then it is an _____
Answer: Integer

FBQ24: If a real number is not rational then it is an _____ number
Answer: Irrational

FBQ25: A number which is neither positive nor negative is
Answer: 0

FBQ26: The supremum is also called the _____ upper bound
Answer: Least

FBQ27: The harmonic series _____
Answer: Diverges

FBQ28: A monotone sequence of real numbers is properly divergent if and only if it is _____
Answer: Unbounded

FBQ29: is an example of _____ numbers
Answer: Irrational

FBQ30: Concept of the divisibility only exists in set of _____
Answer: Integers

FBQ31: The limit of $\frac{1}{n+1}$ is
Answer: 0

FBQ32: A convergent sequence has only _____ limit(s)
Answer: 1

FBQ33: Every convergent sequence has _____ one limit
Answer: 7

FBQ34: Give the next 3 terms of the sequence 0,1,1,2,3,5,8,â€¦,____
Answer: 13, 21, 34

FBQ35: Two Sets A and B are said to be _____ if and only if they have the same elements but possibly with different listings.
Answer: Equal

FBQ36: A sequence which does not converge to some real number is said to be_____
Answer: Divergent

FBQ37: A sequence in which the consecutive terms have opposite signs is called_____ sequence
Answer: Alternating

FBQ38:
Answer: $x \leq y$

FBQ39: If is an _____
Answer: Interval

FBQ40: A sequence $\{X_n\}$ is convergent to the limit if and only if all of itsâ€¦_____converge to the same limit _____
Answer: Terms

FBQ41: The range of is_____
Answer: (0,3]

FBQ42: A continuous real-valued function defined on a closed and bounded interval _____ be bounded
Answer: Must

FBQ43: The range of is_____
Answer: $(-1/2, 1/2)$

FBQ44: The range of is_____
Answer: $[-1/2, \hat{A}^{1/2}]$

FBQ45:
Answer: 1

FBQ46:

Answer: 0.5

FBQ47:

Answer: 0.5

FBQ48: Given the set

Answer: 2

FBQ49: what is the value of a_____

Answer: 0

FBQ50:

Answer: Complete

MCQ1: Define a sequence Then the values of are

Answer:

MCQ2:

Answer:

MCQ3:

Answer:

MCQ4: Define

Answer: 0

MCQ5: \hat{A}

Answer: r

MCQ6: Consider the function

Answer: 1

MCQ7: Consider the function.

Then

Answer: 0

MCQ8:

Answer: None of the options

MCQ9:

Answer: 2

MCQ10:

Answer:

MCQ11:

Answer: 2

MCQ12:

Answer: 1

MCQ13:

Answer:

MCQ14: The inequality \hat{A}

Answer:

MCQ15: Solve the equation

Answer:

MCQ16: Find all which satisfy

Answer:

MCQ17: Solve the inequality Express your answer in interval notation

Answer:

MCQ18: Solve the equation

Answer:

MCQ19:

Answer:

MCQ20: \hat{A}

Answer:

MCQ21: \hat{A} Solve the inequality Express your answer in interval notation. \hat{A}

Answer:

MCQ22: Find all which satisfy

Answer:

MCQ23: \hat{A} Solve the inequality Express your answer in interval notation. \hat{A}

Answer:

MCQ24: Solve the inequality Express your answer in interval notation.

Answer:

MCQ25: \hat{A} Solve the equation \hat{A}

Answer:

MCQ26: \hat{A}

Answer: $\frac{3}{4}$

MCQ27: Let The domain of is the set of all real numbers except

Answer:

MCQ28:

Answer:

MCQ29: Consider the function

Answer:

MCQ30: Consider the function is

Answer:

MCQ31:

Answer:

MCQ32:

Answer:

MCQ33:

Answer:

MCQ34:

Answer:

MCQ35:

Answer:

MCQ36: Let

Answer: 2-32

MCQ37:

Answer: -4

MCQ38:

Answer: 6

MCQ39:

Answer: -1

MCQ40:

Answer: 1

MCQ41: Let

Answer: 3

MCQ42: Let

Answer: 5

MCQ43:

Answer: 13

MCQ44:

Answer: Does not exist

MCQ45:

Answer: 1

MCQ46:

Answer: 2

MCQ47:

Answer: Does not exist

MCQ48:

Answer: -2, 3

MCQ49: An example of a positive convergent sequence

Answer:

MCQ50: An example of a positive divergent sequence \hat{A}

Answer: n