

MTH-101 Final Term Exams Preparation Virtual University

Sr	Questions	Answers Choice
1	Consider the following function $h(x)$ and a constant c then $d/dx((c)){h(x)}=$	A. 0 B. d/dx{h(x)} C. d/dx{h(cx)} D. cd/dx{h(x)}
2	d(sec x)/dx=?	A. sec x tan x B. sec x tan y C. cosec x cot x
3	Let $f(x)$ is the function such that as x approaches a real number ,either from left or right hand side ,the function value increase or decrease unboundedly then $\lim f(x)$	A. Exist B. Does not exist C. Not Sure
4	is the special case for the Taylor's theorem	A. Roll's Theorem B. Picard's Method C. Integration D. Maclaurin Theorem
5	If the partial sum of series is finite then the series will be:	A. Convergent B. Give no information C. Not Sure
6	For a sequence $\{a_n\}$ if the ration of successive terms $a_{n+1}/a_n>1$ then the sequence is known as	A. Increasing B. Decreasing C. Non Increasing D. Non decreasing
7	For a sequence $\{a_n\}$ if the difference between successive terms a_{n+1} - a_n <=0 then the sequence is known as	A. increasing B. decreasing C. non decreasing D. non increasing
8	{1/2 ⁿ } ⁿ 1 represent the sequence	A1/2,-1/4,-1/8 B. 1/2,1/4,1/7=8 C. 0,1,1/2,1/4
9	What is the length of each sub interval ,if the interval [1,3] is divided into n sub interval of equal length?	A. 1/n B. 2/n C. 3/n D. 4/n
10	If f and g are continuous function on an interval $[a,b]$ $f(x)>=g(x)$ for a<=x<=b and ,then area is bounded by the lines parallel to :	A. X-axis B. Y axis C. Both x and y axis