

MTH-101 Final Term Exams Preparation Virtual University

Sr	Questions	Answers Choice
1	According to Power -Rule of differentiation ,if $f(x) = x^n$ where n is a real number, then $d/dx[x^n]$	A. x^{n-1} B. nx^{n-1} C. $(n-1)x^{n-1}$
2	no of x and y are intercept for the equation $y=1/x$	A. Two x intercepts B. Two y intercepts C. No x and y intercept correct D. None of these
3	Function f is differentiable function if it is differentiable on the interval	A. $(-\infty, \infty)$ B. (a, ∞) where a is any negative integer C. $(0, \infty)$ D. None of these
4	graph $x=y^2$ is symmetric about	A. x axis B. y axis C. origin
5	Center and radius of the circle is $(x+5)^2+(y-3)^2=16$ is	A. $(-5,3),4$ B. $(5,-3),16$ C. $(5,-3),4$ D. None of these
6	Consider two function $f(x)=x^3$ and $g(x)=(x+9)$ then $f \circ g(x)=$	A. $(x+9)^3$ B. $x+3$ C. $x+9$
7	Average velocity of a body is V_{ave}	A. $\frac{d(t)-d(0)}{t-0}$ B. $\frac{t-0}{d(t)-d(0)}$ C. $\frac{f(t)-f(0)}{t-0}$ D. None of these
8	$\log_b a^r =$ ____?	A. $\log b^r$ B. $\log b^r a$ C. $\log b^r a / \log b^r$
9	Let x_0 be the critical point of the function f, those critical point for which $f'(x_0)=0$ are called _____ of	A. Local points B. End points C. Stationary points
10	What is the base of natural logarithm ?	A. 2.71 B. 10 C. 5