

MTH-101 Final Term Exams Preparation Virtual University

Sr	Questions	Answers Choice
1	$\frac{d}{dx}[\operatorname{cosec} x]$	A. $\frac{1}{1+\cos^2 x}$ B. $-\frac{\cos x}{1-\cos^2 x}$ C. $\frac{1}{1-\cos^2 x}$
2	The equation of the line of the form $y-y_1=m(x-x_1)$ is known as	A. Point Slope form B. Two points form C. Intercept form D. Slope intersect form
3	The graph of the equation $y=x^2-4x+5$ will represent	A. Parabola B. Single line C. Two straight line D. Ellipse
4	If $2y-y=-3$ then $\frac{dy}{dx}$?	A. 2 B. -2 C. 0 D. -3
5	$\lim_{x \rightarrow a} f(x) = ______$ where $f(x)=k$?	A. $k+2$ B. $k+1$ C. k
6	Chain rule is a rule for differentiating _____ of functions	A. Product B. Sum C. Composition D. Difference
7	The graph $x=y^2$ is symmetric about _____ axis?	A. X-axis B. Y-axis C. Origin
8	Suppose f and g are differentiable function of x then $\frac{d}{dx}[f/g]$	A. $\frac{[g][f'] - [f][g']}{g^2}$ B. $\frac{[g'] [f] - [f'] [g]}{g^2}$ C. $\frac{[g'] [f] - [f'] [g]}{f^2}$
9	The set $\{x:a \leq x \leq b\}$ can be written in the form of interval ?	A. (a,b) B. (a,b) C. $[a,b]$
10	π is a _____ number	A. rational B. irrational C. natural D. integer