

MTH-101 Final Term Exams Preparation Virtual University

Sr	Questions	Answers Choice
1	Sigma notation is represent by	A. M B. N C. $\sum$
2	$y=1/(1-x)$ dy/dx if then	A. 1 B. -1 C. $1/(1-x)^2$
3	$h(x)=1/(x-2)(x-4)$ domain of the function is	A. $(-\infty, 2) \cup (2, 4) \cup (4, +\infty)$ B. $(-\infty, 2) \cup (2, 4) \cup (4, +\infty)$ C. All are incorrect
4	set $\{-4, -3, -2, -1, 0, 1, 2, 3, 4\}$ is known as the set of	A. natural number B. Integer C. whole number
5	$\log_b 1/c = ______?$	A. $\log b/c$ B. $1 - \log b/c$ C. $-\log b/c$ D. $1 + \log b/c$
6	$\log_b ac = ______?$	A. $\log b/a + \log b/c$ B. $\log b/a + \log b/b$ C. None of these
7	Let $y=(x^3+2x)^{37}$ which of the following is correct?	A. $dy/dx=37(x^3+2x)^{36}$ B. $dy/dx=111x^2(x^3+2x)^{36}$ C. $dy/dx=(111x^2+74)(x^3+2x)^{36}$
8	if $x^2+y^2=9$ then $dy/dx=?$	A. x/y B. $-x/y$ C. $-y/x$
9	if $xy=4$ then $dy/dx=?$	A. 0 B. $-1/x^2$ C. $-4/x^2$
10	If $y=1/(1-x)$ the $dy/dx=?$	A. -1 B. 1 C. $1/(1-x)^2$