

## STA-301 Quiz OnlineTest

Sr	Questions	Answers Choice
1	If there is some function F such that $d/dx[F(x)]=f(x)$ then antiderivatives of $f(x)$ are $F(x)+C$ . What does C represent?	A. Polynomial B. Constant C. Dependent variable D. Independent variable
2	If there is some function F such that $d/dx[F(x)]=f(x)$ then any of the function of the form $F(x)+C$ is _____ of $f(x)$	A. Derivative B. Antiderivative C. Slope D. Maximum value
3	The mean value of theorem states that " Let function f can be differentiable on (a,b) and continuous on [a,b] then there is no exist at least one point c in (a,b) where _____	A. $f'(c)=f(b)-f(a)/b-a$ B. $f(c)=f(b)-f(a)/b-a$ C. $f(c)=f(a)-f(b)/b-a$
4	If a function has an extreme value (either a maximum or a minimum ) on an open interval (a,b) then the extreme value occurs at _____ of f	A. First point B. Mid point C. Critical Point D. End Point
5	$\log_b a =$ _____	A. $\log_{b/a} b$ B. $\log_{b/a} a$ C. $\log_{b/a} b$ D. $\log_{b/a} a$
6	Let $y=(x^3+2x)^{37}$ Let Which of the following is correct?	A. $dy/dx=(37)(x^3+2x)^{36}$ B. $dy/dx=(111x^2+74)(x^3+2x)^{36}$ C. $dy/dx=(111x^2+74)(x^3+2x)^{36}$ D. $dy/dx=(111x^2+74)(x^3+2x)^{36}$
7	The $\tan(x)$ is discontinuous at the point where	A. $\cos(x)=0$ B. $\sin(x)=0$ C. $\tan(x)=0$
8	Polynomials are always _____ function	A. Continuous B. Discontinuous C. Not Sure
9	The graph of the equation $y=x^2-4x+5$ will represent	A. Parabola B. Straight Line C. Ellipse
10	Which operation can not be applied on the function?	A. Subtraction B. Cross Product C. Addition D. Composition
11	The PYTHAGORAS theorem describe the relationship between the sides of	A. Right angle triangle B. Isosceles Triangle C. Equilateral triangle
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13	What is the sum of the following series? $1+2+3+\dots+n$	A. $n+1/2$ B. $(n+1)(n+2)/2$ C. $n(n+2)/2$ D. $n(n+1)/2$
14	if $2x-y=-3$ they $dy/dx=?$	A. 2 B. -2 C. 0 D. -3
15	$y=x^2/2$ Let find the average rate of change of y with respect to x over the interval [3,4]	A. 25/2 B. 7/2 C. 25/14 D. 7/14

