

## CALCULUS 2

1.1 Definition: The function  $F(x)$  is said to be the integral of

$f(x)dx$ , if the differential of  $F(x)$  is  $f(x)dx$

In symbol,  $\int f(x)dx = F(x) + C$

Where  $\int$  – The Integral sign

$f(x)dx$  – The integrand

$F(x) + C$  – The indefinite integral

$C$  – The Constant of Integration

### 1.2 STANDARD INTEGRATION FORMULAS

1.  $\int du = u + C$

2.  $\int (u + v)dx = \int udx + \int vdx$

3.  $\int audx = a \int udx$

4.  $\int u^n du = \frac{u^{n+1}}{n+1} + C$  ,  $n \neq -1$

5.  $\int \frac{du}{u} = \ln|u| + C$

Where  $u$  and  $v$  are differentiable functions of  $x$ .

$a$ ,  $n$ , and  $c$  are constants.

### 1.3 INTEGRATION BY SUBSTITUTION

This method involves a change of variable. The purpose of substituting a new variable is to bring the problem to a form for which a standard formula can be applied.

### 1.4 INTEGRATION OF TRIGONOMETRIC FUNCTIONS

T1:  $\int \sin u du = -\cos u + C$

T2:  $\int \cos u du = \sin u + C$

T3:  $\int \tan u du = -\ln|\cos u| + C$

T4:  $\int \cot u du = \ln|\sin u| + C$

T5:  $\int \sec u du = \ln|\sec u + \tan u| + C$

T6:  $\int \csc u du = -\ln|\csc u + \cot u| + C$

T7:  $\int \sec^2 u du = \tan u + C$

T8:  $\int \csc^2 u du = -\cot u + C$

T9:  $\int \sec u \tan u du = \sec u + C$

T10:  $\int \csc u \cot u du = -\csc u + C$

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