



UNIT 5: INTEGRATION

- 5.1 INTEGRATION AS REVERSE PROCESS OF DIFFERENTIATION.
- 5.2 THE INDEFINITE INTEGRAL



$$\int ax^n dx = \frac{ax^{n+1}}{n+1} + c$$

Exercises : Integrate each of the following below.

1). $\int 3dx$	2). $\int x^5 dx$
3). $\int 4x dx$	4). $\int 8x^3 dx$
5). $\int 3x^{-2} dx$	6). $\int \frac{2}{3} x^5 dx$
7). $\int -\frac{x^2}{3} dx$	8). $\int \frac{7}{x^3} dx$