5.1) Indefinite integral:

$\int f(x)dx =$ anti-derivative of f.

I.e, $\int f(x)dx = F(x)$ where $F'(x) = f(x)$

Ex:

1.) $\int x^3 dx =$

2.) $\int [3x^4 + 2 + \frac{3}{x} + \cos(x)]dx =$