Indefinite Integral

$\int f(x)dx = g(x) + C$ if and only if $g'(x) = f(x)$

Rules of Integration

* $\int kdx = kx + C$

* $\int x^n dx = \frac{1}{n+1} x^{n+1} + C \qquad (n \neq -1)$

* $\int [f(x) \pm g(x)]dx = \int f(x)dx \pm \int g(x)dx$

* $\int kf(x)dx = k\int f(x)dx$

Examples:
#4

#8

#14

#22

#32

#40