

**6.2 Antidifferentiation by Substitution Day 2**

Definite Integral  $\int_a^b f(x) dx$

Indefinite Integral  $\int f(x) dx$

Ex 1)  $\int_0^1 r\sqrt{1-r^2} dr$

$$\text{Ex 2) } \int_{-1}^1 \frac{5r \, dr}{(4 + r^2)^2}$$

$$\text{Ex 3) } \int_2^5 \frac{dx}{2x - 3}$$