

$$\int \cos x \, dx = \sin x + C$$

$$\int \sec^2 x \, dx = \tan x + C$$

$$\int \sec x \tan x \, dx = \sec x + C$$

$$\int \frac{1}{1+x^2} \, dx = \arctan x + C$$

$$\int \frac{1}{\sqrt{1-x^2}} \, dx = \arcsin x + C$$

8.1 SUBSTITUTION

Needless to say, most problems we encounter will not be so simple. Here's a slightly more complicated example: find

$$\int 2x \cos(x^2) \, dx.$$

This is not a “simple” derivative, but a little thought reveals that it must have come from an application of the chain rule. Multiplied on the “outside” is $2x$, which is the derivative of the “inside” function x^2 . Checking:

$$\frac{d}{dx} \sin(x^2) = \cos(x^2) \frac{d}{dx} x^2 = 2x \cos(x^2),$$

so

$$\int 2x \cos(x^2) \, dx = \sin(x^2) + C.$$

Even when the chain rule has “produced” a certain derivative, it is not always easy to see. Consider this problem:

$$\int x^3 \sqrt{1-x^2} \, dx.$$

There are two factors in this expression, x^3 and $\sqrt{1-x^2}$, but it is not apparent that the chain rule is involved. Some clever rearrangement reveals that it is:

$$\int x^3 \sqrt{1-x^2} \, dx = \int (-2x) \left(-\frac{1}{2} \right) (1 - (1-x^2)) \sqrt{1-x^2} \, dx.$$

This looks messy, but we do now have something that looks like the result of the chain rule: the function $1-x^2$ has been substituted into $-(1/2)(1-x)\sqrt{x}$, and the derivative

Techniques Of Calculus

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