

going on. For example, in Leibniz notation the chain rule is

$$\frac{dy}{dx} = \frac{dy}{dt} \frac{dt}{dx}.$$

The same is true of our current expression:

$$\int \frac{x^2}{-2} \sqrt{u} \frac{du}{dx} dx = \int \frac{x^2}{-2} \sqrt{u} du.$$

Now we're almost there: since  $u = 1 - x^2$ ,  $x^2 = 1 - u$  and the integral is

$$\int -\frac{1}{2}(1 - u)\sqrt{u} du.$$

It's no coincidence that this is exactly the integral we computed in (8.1.1), we have simply renamed the variable  $u$  to make the calculations less confusing. Just as before:

$$\int -\frac{1}{2}(1 - u)\sqrt{u} du = \left(\frac{1}{5}u - \frac{1}{3}\right) u^{3/2} + C.$$

Then since  $u = 1 - x^2$ :

$$\int \sqrt{1-x^2} dx = \left(\frac{1}{5}(1-x^2) - \frac{1}{3}\right) (1-x^2)^{3/2} + C.$$

The motivation of our change from  $x$  to  $u$  gives direction to the definition of another use of the chain rule. For the  $u$ -substitution method, we choose  $u$  to be the inner function. This variable  $u$  gives direction to that is, an inner variable in terms of  $x$ , with  $u$  depending on the independent variable. If we can integrate the new function of  $u$ , then the substitution of the original function is obtained by replacing  $u$  by the substituted expression in  $x$ .

There is always one use that applies to all the substitution problems. This is often how to avoid the constant. For example, consider again the integral problem:

$$\int \cos(x) dx.$$

Let  $u = x$ . Then  $du/dx = 1$  so  $du = dx$ . Then we have exactly back to the original integral, so we replace  $x$  by  $u$ :

$$\int \cos(x) dx = \int \cos(u) du = \sin(u) + C = \sin(x) + C.$$

This is not the only way to do the integral, and especially there are many paths to the correct answer. Another possibility, for example, is: Let  $u = x - \pi$ , so  $du = dx$ . Then

# Techniques Of Calculus

**Peipei Pang**



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web jan 4 2022 balon helium sangatlah ringan dan tidak reaktif sehingga ia dapat mengapung di udara tanpa takut terbakar oleh panas hal ini membuat helium digunakan sebagai gas pengisi balon selain mengisi balon helium juga digunakan untuk mengisi air bag mobil ketika terjadi benturan pada mobil baca juga mengapa balon bisa terbang

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