

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 so that the inner function, when composed by the given function, is that is, is a certain constant or power of u , with u or a constant in the denominator. If we can integrate this 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 substituted quantities, that is often how to convert the variable. For example, consider again the integral problem:

$$\int \cos x \sin x dx.$$

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

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

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 $u = \cos x$ or $du = -\sin x dx$, and

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