

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 of variables is the definition of another variable in the chain rule. We let $u = 1 - x^2$. This variable is the same function that we used in the given function so that it is a certain number in terms of x , with u corresponding to the expression. 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 $1 - x^2$.

There is always one case that fails to use the substitution procedure. This is often done to avoid the variable. For example, consider again the integral problem:

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

Let $u = 1 - x^2$. Then $du/dx = -2x$ or $dx = -du/2x$. Then we have exactly back to the original integral, so we cannot do it by this.

$$\int \sqrt{1-x^2} dx = \int \sqrt{u} dx = \int \sqrt{u} (-du/2x) = -\frac{1}{2} \int \frac{\sqrt{u}}{x} du.$$

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 $u = 1 - x^2$ or $x = \sqrt{1-u}$, and

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