

Factorial function

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1 Definition

Here we define the factorial funktion.

First we define a pyk name:

[factorial $\xrightarrow{\text{pyk}}$ “factorial”]

then a TeX aspect

[x! $\xrightarrow{\text{tex}}$ “#1.!”]

and lastly the mathematical (logical) definition

[x! $\xrightarrow{\text{val}}$ If(x $\approx$ 0, 1, x · x – 1!)]

2 Tests

We test for different values

[1! $\approx$ 1].

[2! $\approx$ 2].

[3! $\approx$ 6].

This next one is tricky since 24 is not defined as cardinal in pyk. However there's a way around that

[4! $\approx$ 4 · 6].