

A Logiweb page defining a factorial function

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This document defines and tests a function for calculating the factorial of an integer. First we define then name of the page:

$$[\text{factorial} \stackrel{\text{pyk}}{=} \text{"factorial"}],$$

which we shall call **fact**. Having done this we next define the T_EX rendering of the **fact** function, which is what decides how the text appears when using the function later on:

$$[x! \stackrel{\text{tex}}{=} \text{"\#1.!"}].$$

Next we declare the value of the function:

$$[x! \doteq x \approx 0 \left\{ \begin{array}{l} 1 \\ x \cdot (x-1)! \end{array} \right.]^{\textcolor{red}{1}}$$

And the test:

$$[1! \approx 1].$$

Another test:

$$[3! \approx 6].$$

¹ $[x! \stackrel{\text{pyk}}{=} \text{"* factorial"}]$