## Overview of the package gr-math

1. gr-math collects several mathematical functions in Greek:

Command	Result
\sin x	ημ <i>x</i>
\cos x	συν χ
\tan x	εφ χ
\arcsin x	τοξημ $x$
\arccos x	τοξσυν $x$
\arctan x	τοξεφ $x$
\cot x	σφ χ
\sec x	τεμ $x$
\csc x	στεμ $x$
\arccot x	τοξσφ $x$
\arcsec x	τοξτεμ $x$
\arccsc x	τοξστεμ $x$
\gcd(\nu,\mu)	MKΔ(ν, μ)
\lcm(\nu,\mu)	EKΠ(ν, μ)

## 2. Limits.

It is customary in Greek school mathematics to write  $x \to x_0$  under the symbol of lim. gr-math offers the macro \limdisplay for this. Thus, \limdisplay{x\to x\_0}f(x) results in  $\lim_{x \to x_0} f(x)$ .

## 3. Parallel lines.

 $\text{ET}_{\text{EX}}$  offers \parallel for parallel lines:  $\varepsilon_1 \parallel \varepsilon_2$ . gr-math redefines \parallel to produce:  $\varepsilon_1 \ / \ \varepsilon_2$ .

## 4. A symbol for the right angle.

With  $\hat{A} = 1$  rightangle you get  $\hat{A} = 1$ .