Latex template for theory courses at OSU

Glencora Borradaile

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Theorem 1. The latex package amsthm makes defining mathematically environments easy.

Proof. In the preamble,

 $\verb+newtheorem{theorem}{Theorem}$

defines the theorem environment. a msthm also has a built in proof environment. $\hfill\square$

There are many packages for defining pseudocode, but my favourite is the very simple tabbing environment, illustrated here:

SUMOFNUMBERS(n) x = 0for i = 1, ..., n x = x + ireturn x

Formulae can be set within a line such as this: f(x, y) = (x + y)(x - y) or set out as in Equation (1).

$$f(x,y) = (x+y)(x-y)$$
 (1)

Here is an unnumbered multi-line formula:

$$f(x,y) = (x+y)(x-y) = x(x-y) + y(x-y) = x^2 - xy + xy - y^2 = x^2 - y^2$$