

1. This is the problem.

*Proof.* This is the [solution](#).

- (a) It uses
- (b) a lot of
- (c) symbols,
- (d) like

$$\forall, \exists, \neg, \rightarrow, \leftrightarrow, \mathbb{C} = \langle \text{complex numbers}; +, -, 0, \cdot, 1 \rangle, A_{\mathfrak{p}} \otimes A_{\mathfrak{q}}, \varphi, 2^{\aleph_0}, \left[ MP \stackrel{def}{=} \frac{\alpha, (\alpha \rightarrow \beta)}{\beta} \right]$$

and

$$0 \rightarrow M' \xrightarrow{\alpha} M \xrightarrow{\beta} M'' \rightarrow 0. \tag{\ddagger}$$

□