1. This is the problem.

Proof. This is the solution.

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

$$\models, \vdash, \wedge, \lor, \neg, \rightarrow, \leftrightarrow, \mathbb{N} = \langle \mathsf{natural numbers}; +, \cdot \rangle, \mathrm{Th}_{\mathcal{L}}(\mathbf{A}), \varphi, 2^{\aleph_0}$$

fancy stuff

$$\left[MP \stackrel{\text{def}}{=} \frac{\alpha, (\alpha \to \beta)}{\beta}\right], \quad \left(2020^{2019} \stackrel{\cdot}{\overset{\cdot}{\overset{\cdot}{}}}^{2^1}\right) \downarrow, \quad \begin{bmatrix}1 & 0\\0 & 1\end{bmatrix} \begin{pmatrix}1 & 0\\0 & 1\end{pmatrix} = \begin{vmatrix}1 & 0\\0 & 1\end{vmatrix}$$

and organized stuff

$$m + (n + S(k)) = m + S(n + k)$$
(It's true)
$$= S(m + (n + k))$$
(Because)
$$= S((m + n) + k)$$
(Because)
$$= (m + n) + S(k)$$
(Because)