Standard LaTeX Setup

1 General

1. Prove $a^n + b^n = c^n$ has no integer solutions for $n > 2$.

2 Diagrams

$$G \xrightarrow{\varphi} G \xrightarrow{\psi} G \qquad G \xrightarrow{\psi\circ\varphi} G$$

3 Macros

`\ezset 1 2 n` $\to \{1, 2, \ldots, n\}$

`\grad` $\to \nabla$

`\del{a}{b}` $\to \frac{\partial a}{\partial b}$

`\inv{a}` $\to a^{-1}$

`\id{a}` $\to \mathrm{id}_a$

`\im \conj` $\to \operatorname{im} \operatorname{conj}$

`\Perm G \Aut G \Ker G` $\to \operatorname{Perm} G \operatorname{Aut} G \operatorname{Ker} G$

`\mat a b c d` $\to$

$$\begin{bmatrix} a & \ldots & b \\ \vdots & \ddots & \vdots \\ c & \ldots & d \end{bmatrix}$$

`\colvec a b` $\to$

$$\begin{bmatrix} a \\ \vdots \\ b \end{bmatrix}$$