

Standard LaTeX Setup

1 General

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

2 Diagrams

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

$$\searrow \psi \circ \varphi \nearrow$$

3 Macros

$$\backslash\mathrm{ezset}\ 1\ 2\ n \rightarrow \{1,2,\dots,n\}$$

$$\backslash\mathrm{grad} \rightarrow \nabla$$

$$\backslash\mathrm{del}\{a\}\{b\} \rightarrow \frac{\partial a}{\partial b}$$

$$\backslash\mathrm{inv}\{a\} \rightarrow a^{-1}$$

$$\backslash\mathrm{id}\{a\} \rightarrow \mathrm{id}_a$$

$$\backslash\mathrm{im}\ \backslash\mathrm{conj} \rightarrow \mathrm{im}\ \mathrm{conj}$$

$$\backslash\mathrm{Perm}\ G\ \backslash\mathrm{Aut}\ G\ \backslash\mathrm{Ker}\ G \rightarrow \mathrm{Perm}\ G\ \mathrm{Aut}\ G\ \mathrm{Ker}\ G$$

$$\backslash\mathrm{mat}\ a\ b\ c\ d \rightarrow$$

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

$$\backslash\mathrm{colvec}\ a\ b \rightarrow$$

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