## Conventions, notation, terminology etc.

<sup>&</sup>lt;sup>1</sup>'a rule of thumb: there is a canonical isomorphism between X and Y if and only if you would feel comfortable writing "X = Y"' — Reid Barton, see Mathoverflow, What is the definition of "canonical"?

 $<sup>^2</sup>$ Why " $\subset$ " and " $\subsetneq$ " rather than " $\subseteq$ " and " $\subset$ "? Since I need " $\subset$ " several times a day, while " $\subsetneq$ " hardly once a month.

<sup>&</sup>lt;sup>3</sup>Here B is the codomain, generally not the image of f.