

Group exercises for points

We suppose that we only have the group axioms and three propositions of earlier in the class, see the pdf file called 180923_aata_grp.pdf.

Prove the following three statements.

$$\forall x, y, z (zx = zy \rightarrow x = y)$$

$$\forall x, y (xy = e \rightarrow y = x^{-1})$$

$$\forall x, y (xy = e \rightarrow yx = e)$$

Handwritten answers, due by Friday 26 September 2025.