Introductory Logic: Worksheet 5

October 29, 2025

1 Problem 1

Prove the following:
$$\neg\forall x(Fx \rightarrow Gx) \vdash \exists x(Fx \wedge \neg Gx)$$

2 Problem 2

Are $\forall x \exists y Rxy$ and $\exists y \forall x Rxy$ equivalent? Explain why or why not.