

HW7 for 214

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Let \mathbb{R} be the field of real numbers.

Proposition 0.1. *For any right triangle, we have*

$$a^2 + b^2 = c^2$$

Proof. Let me ask Pythagoras. □

Problem 0.2. *Let G be a Lie group, show that $T_e G$ can be equipped with a Lie algebra structure.*

Solution. We did this in class. □

\mathfrak{g} is a common symbol for Lie algebra.