

Quiz 5

10/19/2020

- What is the Lie bracket of two vector fields X, Y ?
 - Give two definitions ("algebraic" and "geometric" - via flows)
- What is an integral curve of a vector field (definition)
- Is $\varphi: \mathbb{R} \times \mathbb{R} \rightarrow \mathbb{R}$
 $(t, x) \mapsto \varphi_t(x) = x + t^2$ a flow on $M = \mathbb{R}$? (Explain your answer)