Dynamical systems

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Block I

Definitions

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introduction

Dynamical system

Let:

· M manifold

· T set

· $\Phi : \{\Phi_t\}_{t \in T} \subset \mathcal{F}(M, M)$

Then, (M, T, Φ) is a dynamical system if:

· $T \in \{\mathbb{N}, \mathbb{Z}, \mathbb{R}, \mathbb{R}^+\}$

We denote:

· T : time of (M, T, Φ)

Block II

Propositions

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Block III

Examples

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Block IV

Exercises

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Block V

Tasks