

The blossoming principle

Matija Steblaj

December 6, 2024

1 Polynomial maps between affine spaces

Definition 1. Polynomial map for given affine space basis.

Theorem 2. *Polynomial map definition is independent on chosen affine space basis.*

Definition 3. Polynomial map (for any basis)

Theorem 4. *Affine maps are polynomial of degree 1.*

2 Blossoming principle

Definition 5. Multiaffine map

Definition 6. Symmetric map

Theorem 7. *Blossoming principle*