



Math for the people, by the people.

regular group action

Canonical name	RegularGroupAction
Date of creation	2013-03-22 13:21:35
Last modified on	2013-03-22 13:21:35
Owner	mathcam (2727)
Last modified by	mathcam (2727)
Numerical id	7
Author	mathcam (2727)
Entry type	Definition
Classification	msc 20A05
Related topic	GroupAction

Let G be a group action on a set X . The action is called regular if for any pair $\alpha, \beta \in X$ there exists exactly one $g \in G$ such that $g \cdot \alpha = \beta$. (For a right group action it is defined correspondingly.)

A key example of a regular action is the regular representation of a group, with action given by group multiplication.