



Math for the people, by the people.

zero module

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Let  $R$  be a ring.

The abelian group which contains only an identity element (zero) gains a trivial  $R$ -module structure, which we call the .

Every  $R$ -module  $M$  has an zero element and thus a submodule consisting of that element. This is called the *zero submodule* of  $M$ .