



INTEGER ARITHMETIC

Why

What are addition and multiplication for integers? What are the identity elements?

Definition

We call the operation of forming integer sums *integer addition*. We call the operation of forming integer products *integer multiplication*.

Results

It is easy to see the following.¹

Proposition 1. *The additive identity for \mathbf{Z} is $[(0, 0)]$.*

Proposition 2. *The multiplicative identity for \mathbf{Z} is $[(0, 0)]$.*

¹Nonetheless, the full accounts will appear in future editions.

