

# INTEGER ADDITIVE INVERSES

# Why

What is the additive inverse of [(a, b)] in the integers?

## Result

**Proposition 1.** The additive inverse of  $[(a,b)] \in \mathbf{Z}$  is [(b,a)].

## Notation

We denote the additive inverse of  $z \in \mathbf{Z}$  by -z. We denote a + (-b) by a - b.

## Subtraction

We call the operation  $(a,b) \mapsto a-b$  subtraction.

