



## 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*.



