

## **RATIONAL PRODUCTS**

## Why

We want to multiply rationals.<sup>1</sup>

## **Definition**

Let  $[(a,b)], [(b,c)] \in \mathbf{Q}$ . The rational product of [(a,b)] with [(b,c)] is  $[(ac,bd)].^2$ 

## Notation

We denote the rational product of  $q, r \in \mathbf{Q}$  by  $q \cdot r$ .

<sup>&</sup>lt;sup>1</sup>Future editions will expand on this why.

<sup>&</sup>lt;sup>2</sup>An account that this is well-defined will appear in future editions.

