

- If we write (a, b) as $\frac{a}{b}$, then

$$\frac{a}{b} + \frac{c}{d} = \frac{ac + bd}{bd}, \quad (4)$$

etc.

- So it's just addition of fractions!
- What are the equivalence classes?

$$\frac{a}{b} \sim \frac{c}{d}$$

if the fractions are the same “as real numbers”, and so the canonical version of any fraction is that fraction “in lowest terms”...