



## Equations

### 1 Why

### 2 Definition

An *equation* is a statement of equality between two objects.

For example, if we have an object  $a$  and an object  $b$ , then an equation is

$$a = b.$$

Equations are useful when we do not know the particular identity of an object, but only that it belongs to some set. In this case, we call the equation *indeterminate*