

## Defining variables

We can define a variable for use later in the document by using the equivalence (`\equiv`) symbol inside an equation:

$$x \equiv \sqrt{16} \quad \equiv (1)$$

Note the icon next to the equation; `qed` did not perform any tests but instead stored the expression for  $x$ . We can then reference  $x$  in subsequent equations, and `qed` will recognize it and automatically substitute its definition:

$$x = 4 \quad \blacksquare (2)$$

For convenience, users can also use the starred version of the equivalence command (`\equiv*`), which behaves in the same way but typesets as a regular equality symbol:

$$y = \sqrt{25} \quad \equiv (3)$$

This works just as before:

$$y = 5 \quad \blacksquare (4)$$