# Truth Tables: and, or, and not

These tables show the values of and, or, and not. The two operands of and and or, and the single operand of not, are Boolean variables or expressions.

| $x$ | $y$ | $x$ and $y$ |
|-----|-----|-------------|
| True | True | True |
| True | False | False |
| False | True | False |
| False | False | False |

| $x$ | not $x$ |
|-----|---------|
| True | False |
| False | True |

| $x$ | $y$ | $x$ or $y$ |
|-----|-----|------------|
| True | True | True |
| True | False | True |
| False | True | True |
| False | False | False |