

10 Logic gates – Part 1 —Answers

Answers

Work through these after trying the questions yourself.

10.1 TRUE (1) and FALSE (0).

10.2 Only when both inputs are 1.

10.3 When either input (or both) is 1.

10.4 It flips (inverts) the input: $0 \rightarrow 1$ and $1 \rightarrow 0$.

10.5 0.

10.6 (a) $1 \text{ AND } 1 = 1$ (both inputs are 1); (b) $1 \text{ OR } 0 = 1$ (at least one input is 1); (c) $\text{NOT } 0 = 1$ (NOT flips it).