

## Chapter 5: Quantum Gates and Circuits

This section is already in the book plan, but it has not been written fully yet. The book owner can press Generate section to write this part with the language model connected to TheoryTrace.

Section plan:

Introduces unitary operations, common gates such as X, Z, H, phase gates, controlled gates, and how circuit diagrams represent quantum computation.

### References

References will be added when this section is generated.

# Document information

## Chapter 5: Quantum Gates and Circuits

---

<b>Project</b>	Grover's Algorithm from First Principles
<b>Document</b>	Document 1.9
<b>Author</b>	mujirin
<b>Verifier</b>	Not verified
<b>Downloaded</b>	July 04, 2026 20:15 KST
<b>Status</b>	Working
<b>Document link</b>	<a href="https://www.theorytrace.com/projects/grovers-algorithm-from-first-principles/documents/chapter-5-quantum-gates-and-circuits/">https://www.theorytrace.com/projects/grovers-algorithm-from-first-principles/documents/chapter-5-quantum-gates-and-circuits/</a>