Chapter 13: The Quantum Fourier Transform

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 periodicity, roots of unity, and the quantum Fourier transform as a central tool in quantum algorithms. Students learn the circuit structure, the intuition behind phase estimation, and why Fourier methods reveal hidden patterns.

References

References will be added when this section is generated.

Document information

Chapter 13: The Quantum Fourier Transform

Project	Quantum Computing from First Principles
Document	Document 1.17
Author	mujirin
Verifier	Not verified
Downloaded	July 04, 2026 20:17 KST
Status	Working
Document link	https://www.theorytrace.com/projects/quantum-computing-from-first-principles/documents/chapter-13-the-quantum-fourier-transform/