

## Chapter 16: Grover's Search Algorithm

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:

Develops Grover's algorithm through amplitude amplification. Students learn oracles, marked states, diffusion, geometric intuition, and why the algorithm gives a quadratic speedup rather than an exponential one.

### References

References will be added when this section is generated.

# Document information

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