

Name _____

Quantum Computing and the Future of Cryptography

Short Answer

1. Explain the significance of Shor's algorithm in the context of quantum computing and cryptography.
2. What is post-quantum cryptography, and why is it necessary?
3. Describe how quantum key distribution (QKD) works and why it is considered unbreakable.
4. How does the impact of quantum computing on cryptography extend beyond digital security?
5. What is the transition to quantum-resistant cryptography, and why is it important for the future?

