Übungsblatt 3 - QIV I

Exercises 2.27, 2.28, 2.29, 2.30, 2.32, 2.33, 2.37, 2.38, 2.47 from Chapter 2 of the Nielsen-Chuang.

Additionally:

2.51: Verify that the Hadamard gate is unitary.

2.52: Veriy that $H^2 = I$.

2.53: What are the eigenvalues and eigenvectors of H?