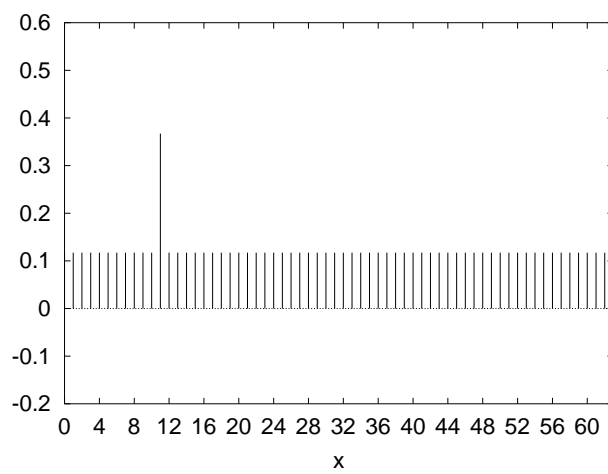
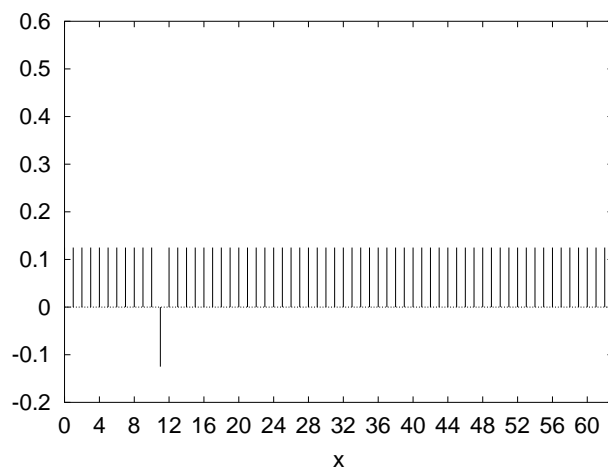
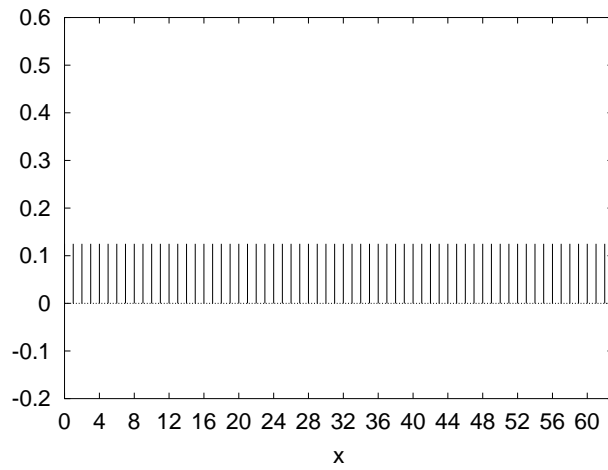
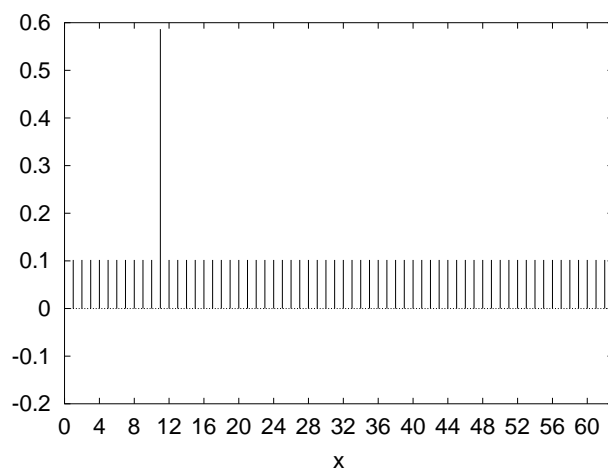
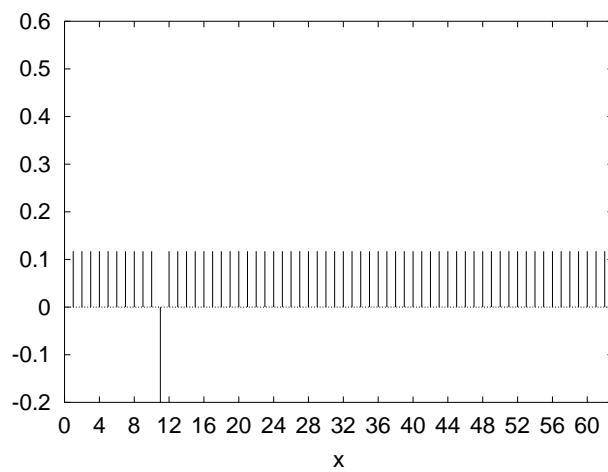
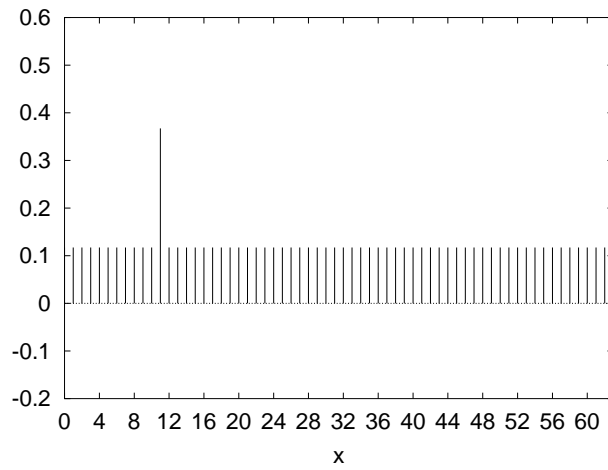


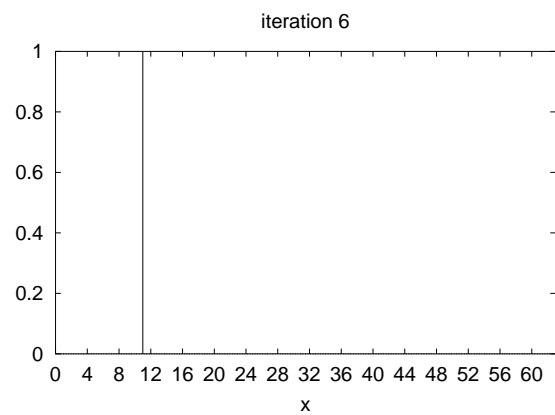
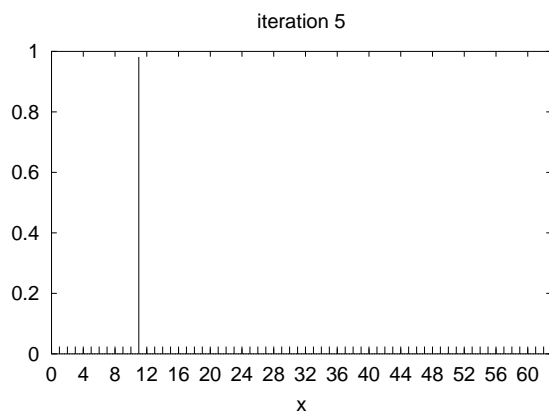
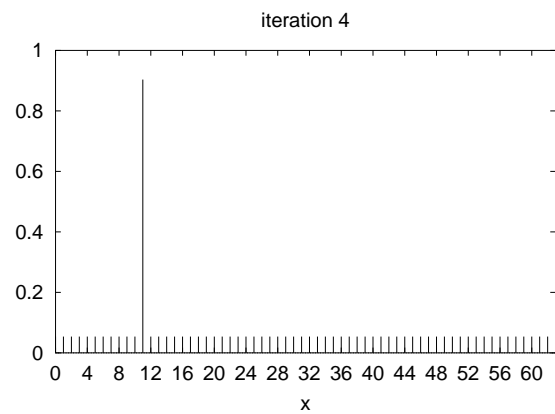
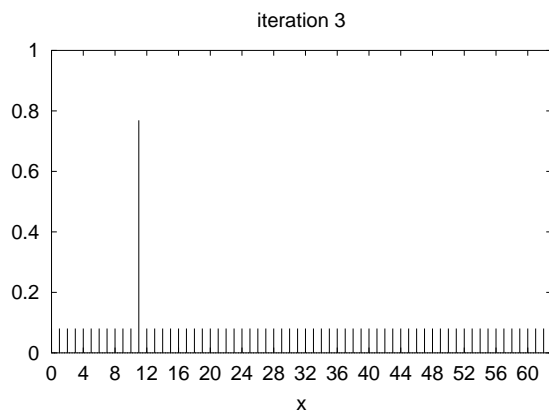
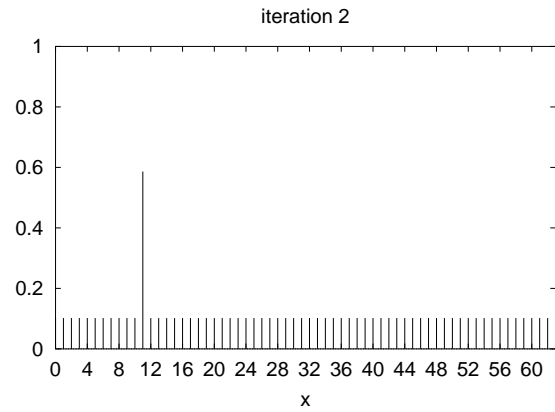
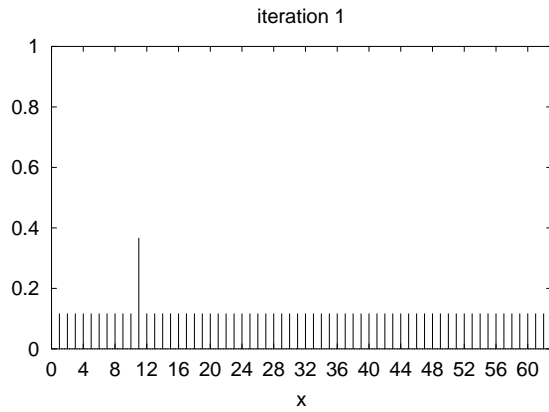
# Grover Algorithm: 1. iteration



# Grover Algorithm: 2. iteration



# Grover Algorithm: amplitude amplification



# Grover Algorithm: Amplitude

$$a_1 = \sin((2\mu + 1)\Theta_0) \quad \text{where} \quad \sin(\Theta_0) = \sqrt{1/N}$$

$$N=64: \mu_{\max} = 5.77$$

