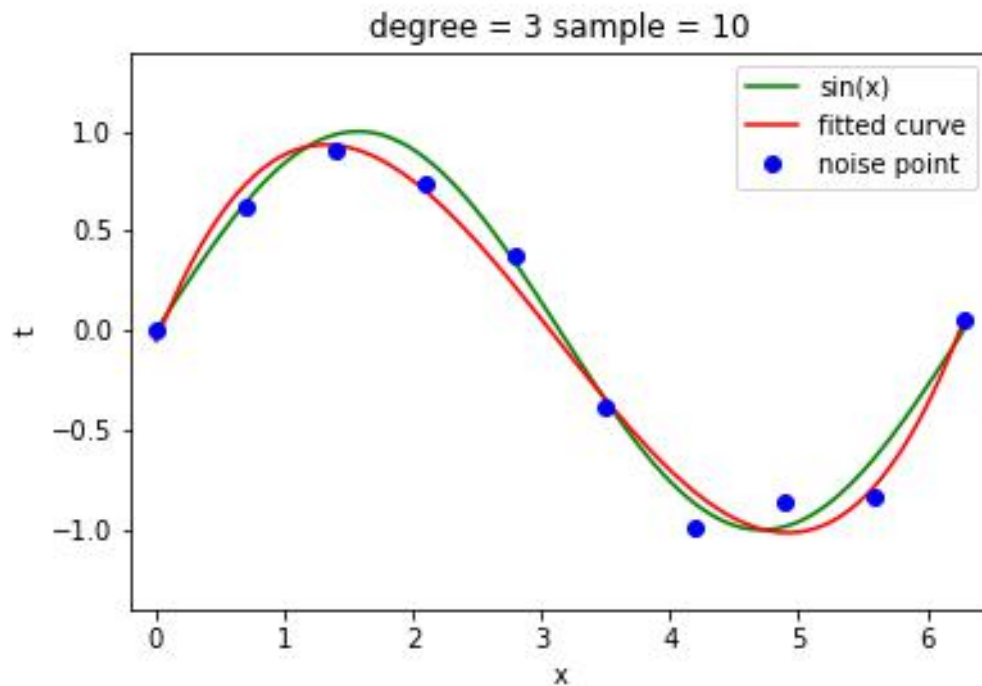


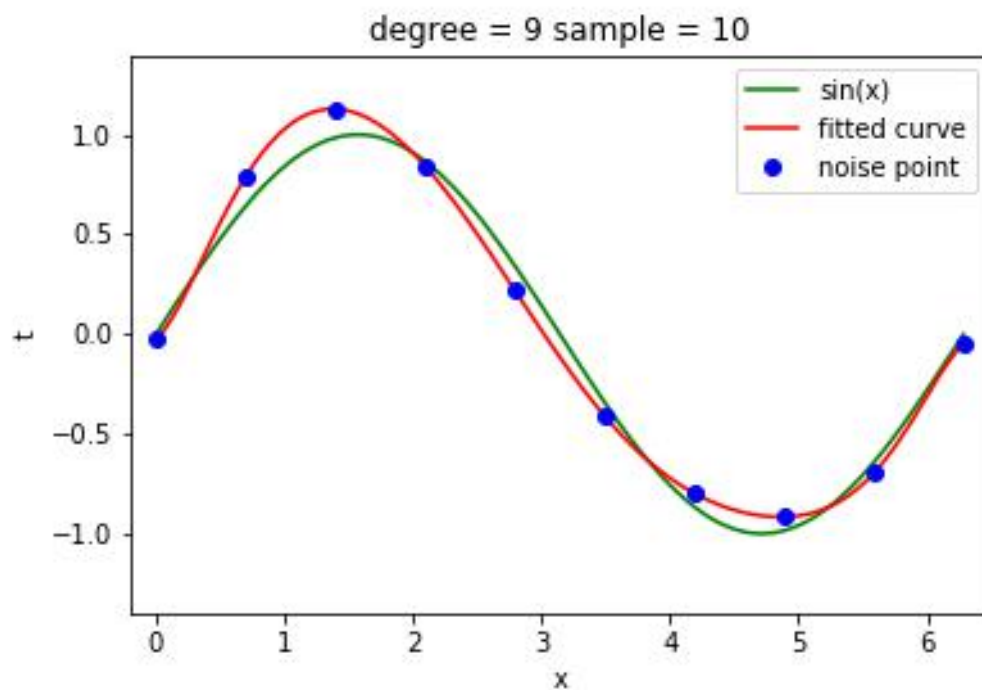
Homework 01: Polynomial Curve Fitting

11921006 Peixin Zhang

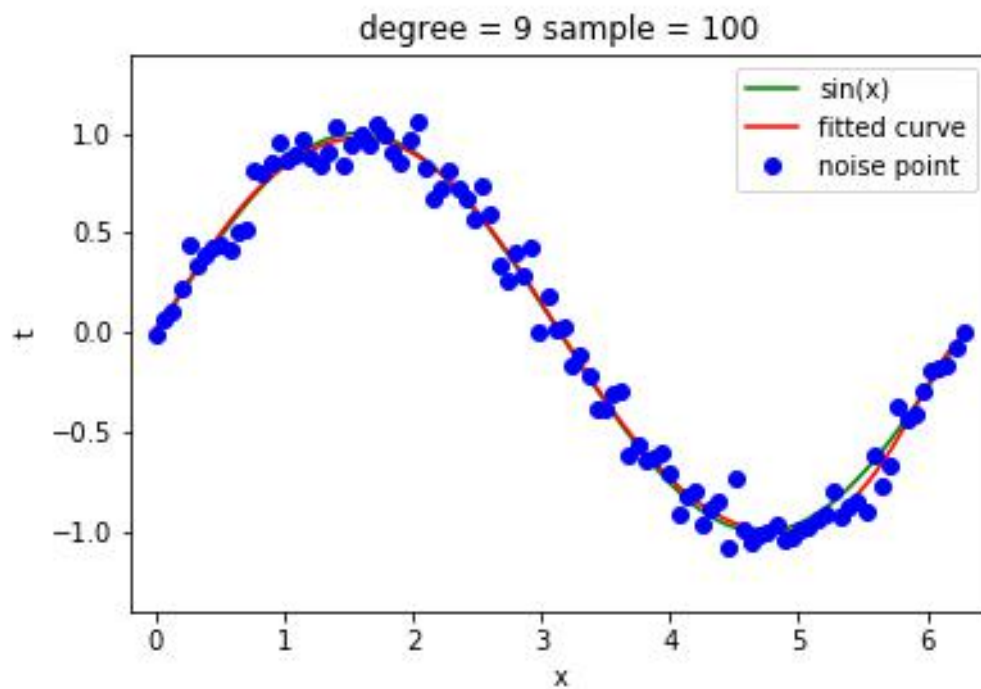
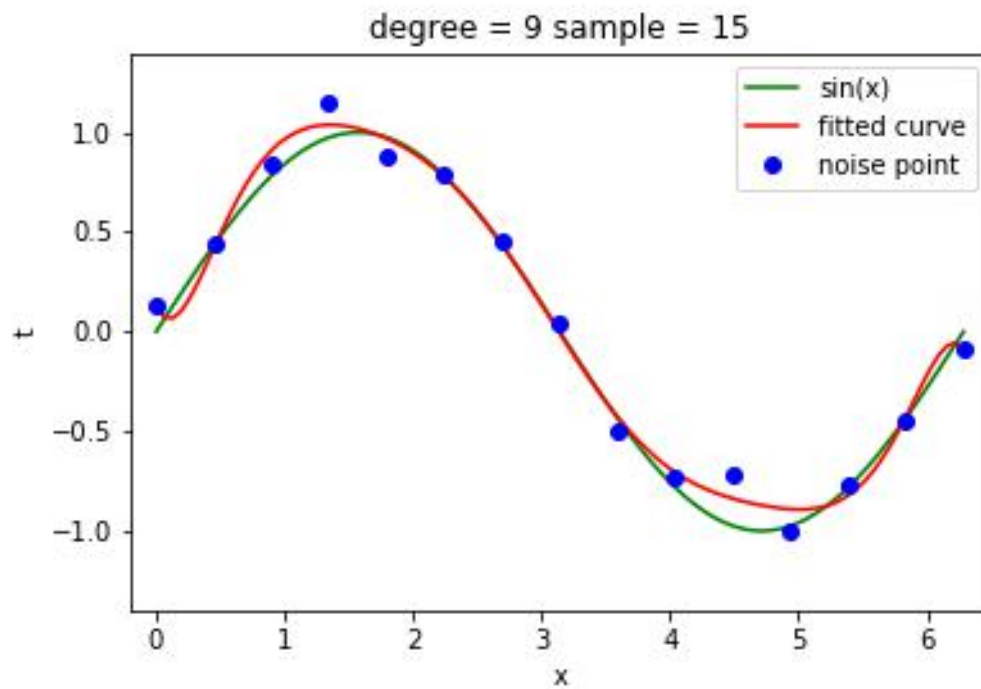
1. sample the function curve of $y=\sin(x)$ with Gaussian noise



2. fit degree 3 and 9 curves in 10 samples



3.fit degree 9 curves in 15 and 100 samples



4.fit degree 9 curve in 10 samples but with regularization term

degree = 9 sample = 10 with regularization term

