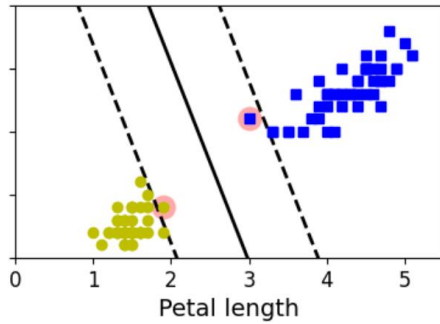


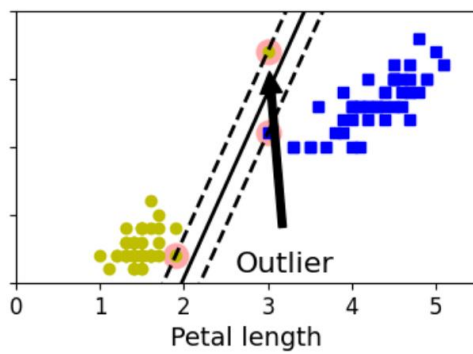
Assignment 2 Results

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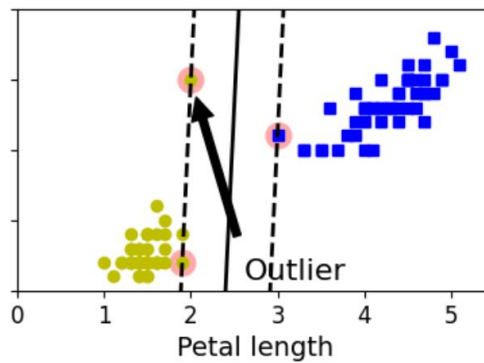
Problem 1. Large margin classification



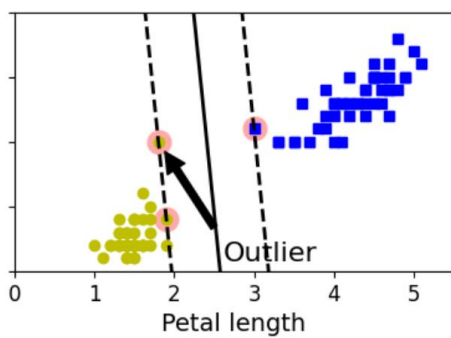
Problem 2. Sensitivity to outliers



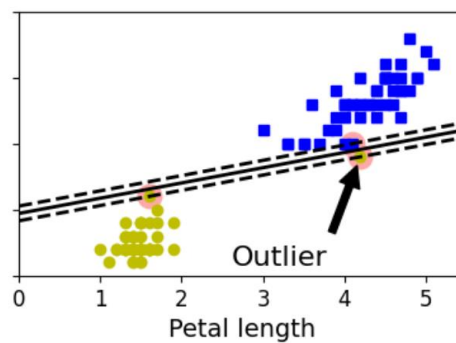
$X_{\text{outliers}} = (3, 1.7)$



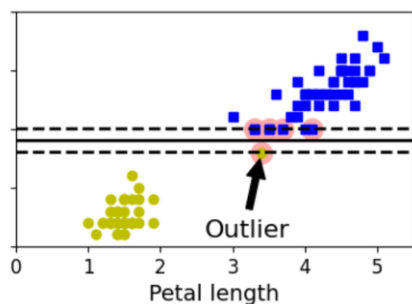
$X_{\text{outliers}} = (2, 1.5)$



$X_{\text{outliers}} = (1.8, 1)$

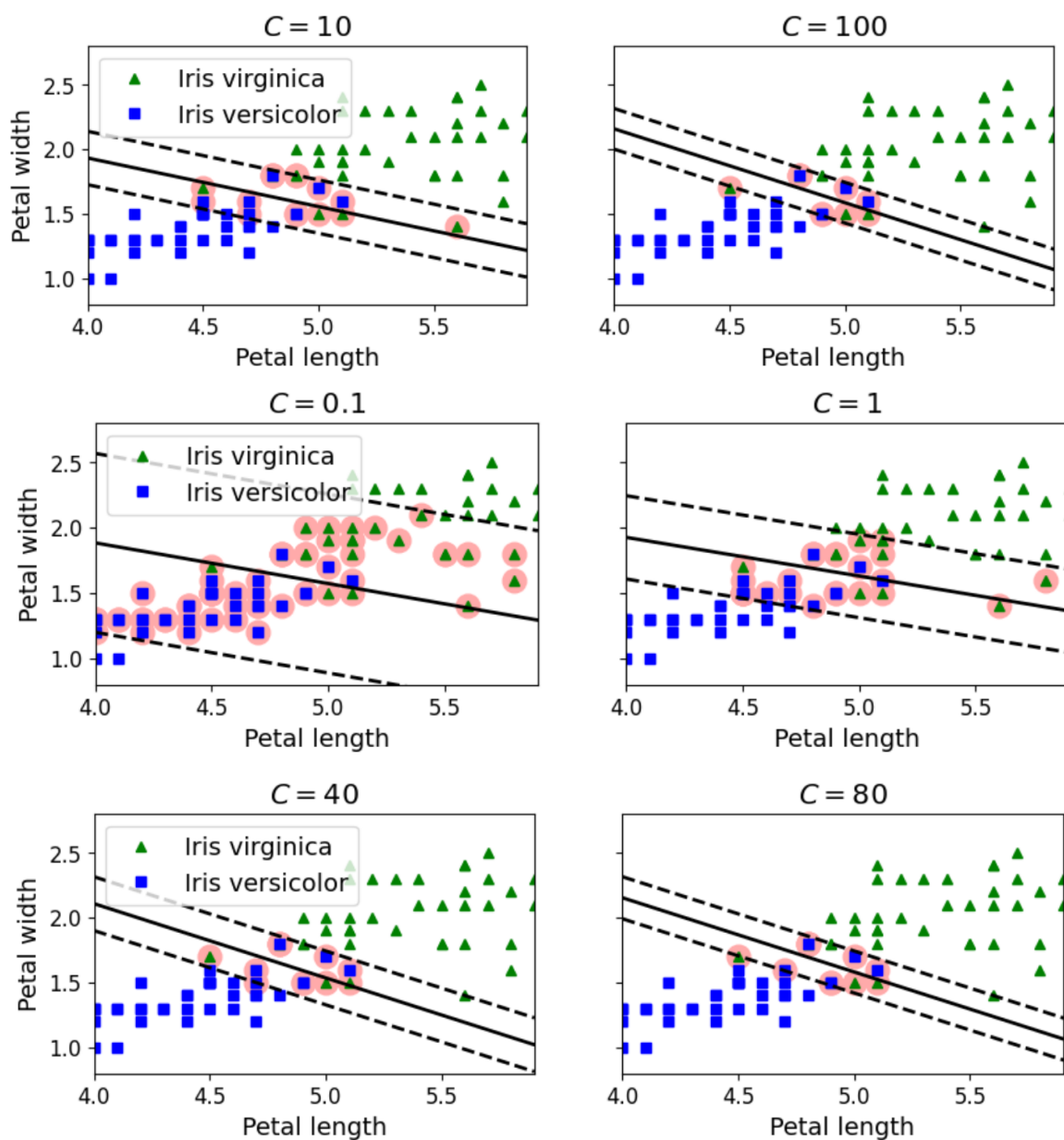


$X_{\text{outliers}} = (4.2, 0.9)$

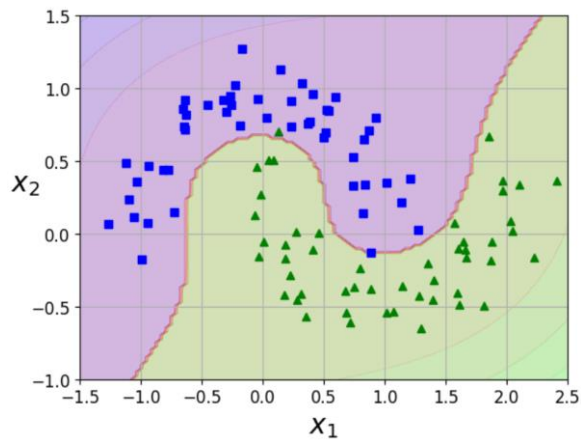


`X_outliers = (3.4, 0.8)`

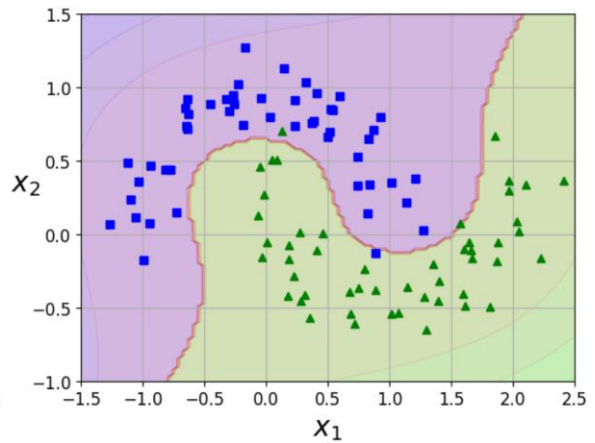
Problem 3. Large margin vs margin violations



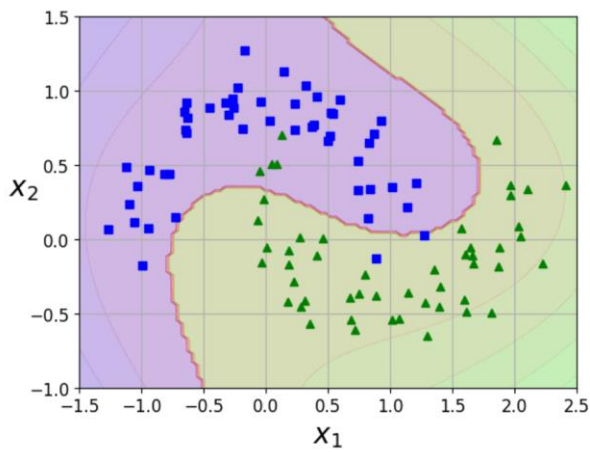
Problem 4. Non-linear classification



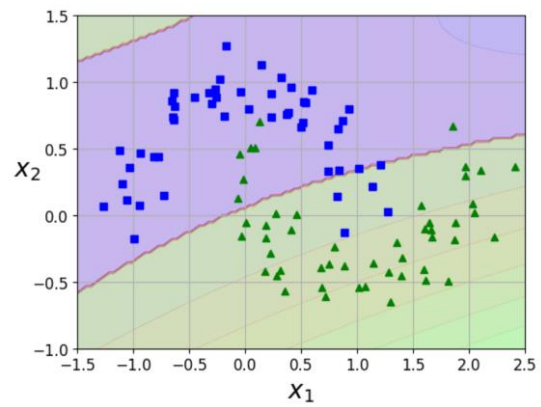
degree=3, C=20



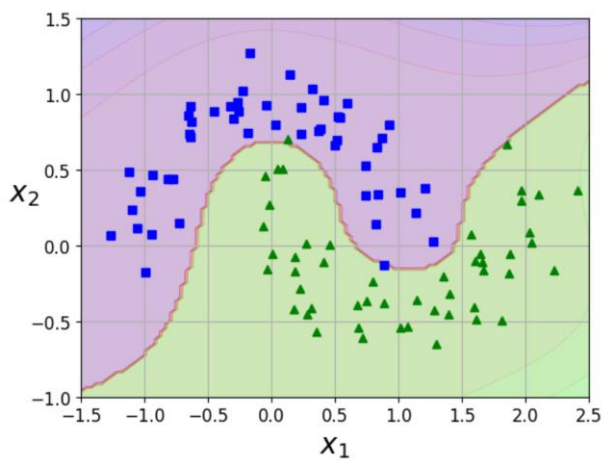
degree=3, C = 10



degree=3, C = 1

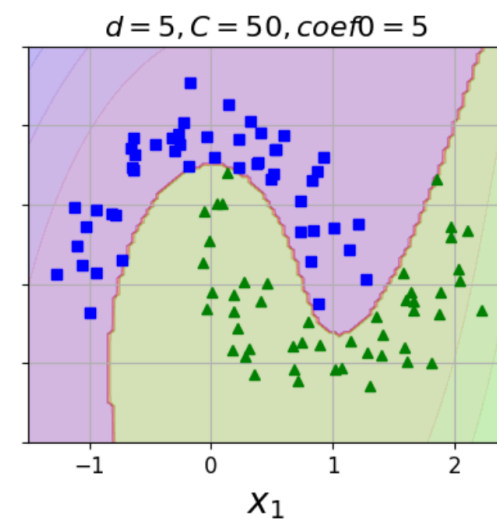
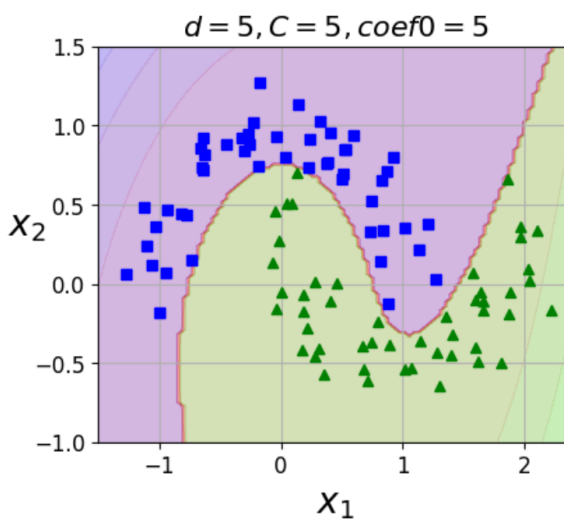
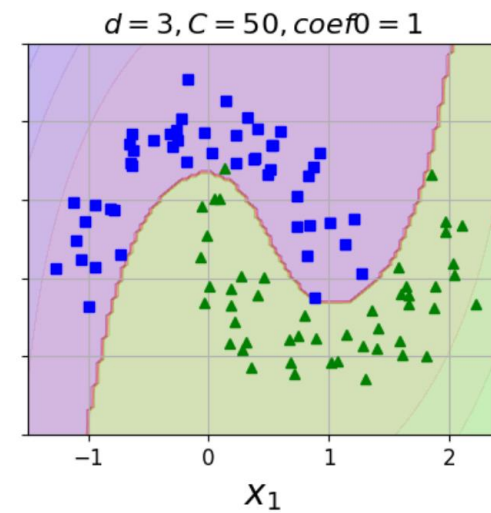
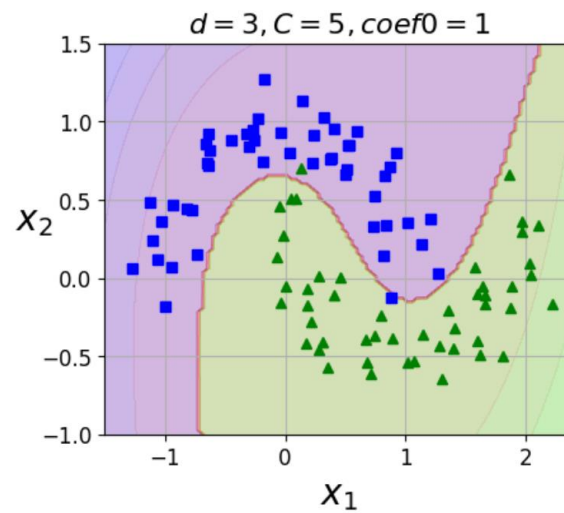
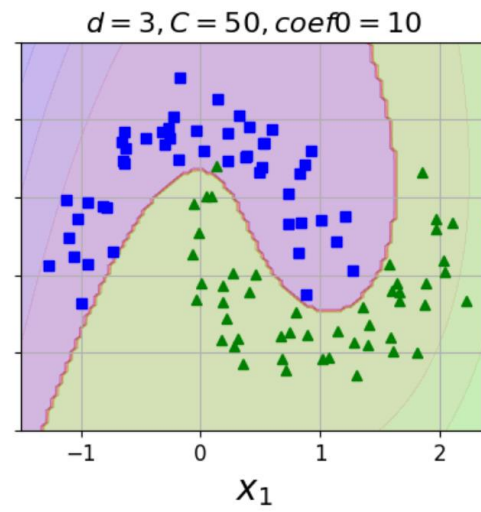
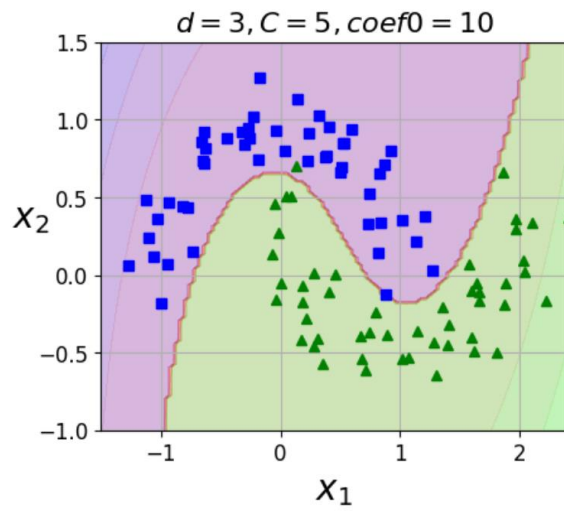


degree=2, C = 10



degree=5, C = 10

Problem 5. Polynomial Kernel



Problem 6. Gaussian RBF Kernel

