1.

|  |  |  |
| --- | --- | --- |
|  | Training Score | Testing Score |
| 1 | 1 |  |
| 2 | 1 |  |
| 3 | 1 |  |
| 4 | 1 |  |
| 5 | 1 |  |
| 6 | 1 |  |
| 7 | 1 |  |

2.

The average test error is: 0.102

The test error standard deviation is: 0.0190

The average best degree is: 3.45

The best degree standard deviation is: 0.805

Degree, Test Error

0, 0.10256410256410253

1, 0.1282051282051282

2, 0.08333333333333337

3, 0.10897435897435892

4, 0.08012820512820518

5, 0.09294871794871795

6, 0.09294871794871795

7, 0.11538461538461542

8, 0.13782051282051277

9, 0.07371794871794868

10, 0.08653846153846156

11, 0.09935897435897434

12, 0.08653846153846156

13, 0.13782051282051277

14, 0.08974358974358976

15, 0.10576923076923073

16, 0.1217948717948718

17, 0.1217948717948718

18, 0.08653846153846156

19, 0.08653846153846156