| Distance btw Centers | Error | Iteration | Percentage correct points (%) |
| --- | --- | --- | --- |
| 3 | 0.66238704373 | 21 | 99.55 |
| 3.1 | 0.664813326373 | 21 | 99.50 |
| 3.2 | 0.667725599996 | 16 | 99.55 |
| 3.3 | 0.663122720319 | 12 | 100 |
| 3.4 | 0.645529199024 | 11 | 99.95 |
| 3.5 | 0.641323953214 | 12 | 99.95 |
| 3.6 | 0.661290255025 | 11 | 99.75 |
| 3.7 | 0.657699865148 | 10 | 99.85 |
| 3.8 | 0.660699117682 | 10 | 99.95 |
| 3.9 | 0.656072137733 | 6 | 99.95 |
| 4.0 | 0.663953352886 | 8 | 99.85 |
| 4.1 | 0.633057302745 | 7 | 99.95 |
| 4.2 | 0.657497884492 | 7 | 100 |
| 4.3 | 0.655208358036 | 6 | 100 |
| 4.4 | 0.644332179364 | 6 | 100 |
| 4.5 | 0.651394641032 | 7 | 100 |
| 4.6 | 0.637758497237 | 4 | 100 |
| 4.7 | 0.649112200878 | 5 | 100 |
| 4.8 | 0.651843038903 | 4 | 100 |
| 4.9 | 0.660963275536 | 4 | 100 |

Total number of points - 2000 (1000 each)

Dimension - 1000

Ratio of radius - 1: 2

| Distance btw Centers | Error | Iteration | Percentage correct points (%) |
| --- | --- | --- | --- |
| 4 | 0.909977350714 | 28 | 99.15 |
| 4.1 | 0.891642141001 | 23 | 99.9 |
| 4.2 | 0.925060741115 | 27 | 99.3 |
| 4.3 | 0.871220781884 | 21 | 99.55 |
| 4.4 | 0.895850643406 | 22 | 99.40 |
| 4.5 | 0.912276495987 | 16 | 99.8 |
| 4.6 | 0.865666859076 | 16 | 99.9 |
| 4.7 | 0.898026766133 | 17 | 99.35 |
| 4.8 | 0.92246734342 | 16 | 99.45 |
| 4.9 | 0.867353421135 | 14 | 99.9 |
| 5.0 | 0.854017791794 | 14 | 99.8 |
| 5.1 | 0.86994797163 | 9 | 99.95 |
| 5.2 | 0.892396993623 | 17 | 99.45 |
| 5.3 | 0.857605478835 | 10 | 99.95 |
| 5.4 | 0.865236919892 | 11 | 99.95 |
| 5.5 | 0.895149607948 | 10 | 99.75 |
| 5.6 | 0.844612206019 | 12 | 99.8 |
| 5.7 | 0.861779703292 | 8 | 99.9 |
| 5.8 | 0.888748166946 | 10 | 99.95 |
| 5.9 | 0.880918968684 | 9 | 99.75 |

Total number of points - 2000 (1000 each)

Dimension - 1000

Ratio of radius - 1: 3

| Distance btw Centers | Error | Iteration | Percentage correct points (%) |
| --- | --- | --- | --- |
| **6** | 1.42001392018 | 45 | 98.6 |
| **6.1** | 1.50428212293 | 35 | 98.6 |
| **6.2** | 1.48560104933 | 32 | 98.95 |
| **6.3** | 1.3931616816 | 31 | 99.3 |
| **6.4** | 1.37112146348 | 28 | 99.35 |
| **6.5** | 1.4106457465 | 29 | 99.4 |
| **6.6** | 1.38539793507 | 32 | 98.85 |
| **6.7** | 1.37497491623 | 30 | 99.6 |
| **6.8** | 1.41024809887 | 24 | 99.05 |
| **6.9** | 1.38796421612 | 21 | 99.4 |
| **7** | 1.33403559987 | 20 | 99.85 |
| **7.1** | 1.45669677256 | 26 | 98.85 |
| **7.2** | 1.38914813055 | 26 | 99.6 |
| **7.3** | 1.32703444403 | 15 | 99.7 |
| **7.4** | 1.31056301409 | 17 | 99.65 |
| **7.5** | 1.28712644788 | 16 | 99.95 |
| **7.6** | 1.36788565176 | 21 | 99.45 |
| **7.7** | 1.33796346506 | 24 | 99.5 |
| **7.8** | 1.390597071 | 22 | 99.35 |
| **7.9** | 1.3234813729 | 19 | 99.8 |

Total number of points - 2000 (1000 each)

Dimension - 1000

Ratio of radius - 1: 5

| Distance btw Centers | Error | Iteration | Percentage correct points (%) |
| --- | --- | --- | --- |
| **11** | 2.80402919333 | 63 | 98.7 |
| **11.1** | 2.81426352232 | 60 | 98.65 |
| **11.2** | 2.8521972352 | 69 | 98.05 |
| **11.3** | 2.92775819319 | 53 | 98.4 |
| **11.4** | 3.02685794631 | 60 | 97.15 |
| **11.5** | 2.76189618356 | 51 | 98.8 |
| **11.6** | 2.96280861356 | 47 | 97.6 |
| **11.7** | 2.8610828478 | 39 | 98.5 |
| **11.8** | 2.58633224173 | 38 | 99.1 |
| **11.9** | 2.71271581506 | 45 | 98.95 |
| **12** | 2.91985297625 | 44 | 98.4 |
| **12.1** | 2.74939143002 | 50 | 99.05 |
| **12.2** | 2.79162415477 | 48 | 98.95 |
| **12.3** | 2.61911476009 | 33 | 99.15 |
| **12.4** | 2.93444176453 | 40 | 98.45 |
| **12.5** | 2.68758999319 | 42 | 98.9 |
| **12.6** | 2.70348378152 | 40 | 99.15 |
| **12.7** | 2.58241935649 | 40 | 99.4 |
| **12.8** | 2.41891333837 | 29 | 99.6 |
| **12.9** | 2.55686108635 | 33 | 99.5 |

Total number of points - 2000 (1000 each)

Dimension - 1000

Ratio of radius - 1: 10