```
ContourPlot[Evaluate[Flatten[Table[(x-n)^2 + (y-m)^2 = \rho^2, \{n, -3, 3\}, \{m, -3, 3\}]]],
          \{x, -3, 3\}, \{y, -3, 3\}, Axes \rightarrow True, AspectRatio \rightarrow Automatic, ContourStyle \rightarrow Black
\rho := 0.3
points := {{0.4, 0.1}, {0.22924952910108745, 0.19350621025416642},
          {0.05283194463606211, 0.7046886632281584},
          \{0.06177169928112605, 0.2935715537444358\}, \{0.768731955664866, 1.8089107756324223\}, \{0.16177169928112605, 0.2935715537444358\}, \{0.16177169928112605, 0.2935715537444358\}, \{0.16177169928112605, 0.2935715537444358\}, \{0.16177169928112605, 0.2935715537444358\}, \{0.16177169928112605, 0.2935715537444358\}, \{0.16177169928112605, 0.2935715537444358\}, \{0.16177169928112605, 0.2935715537444358\}, \{0.16177169928112605, 0.2935715537444358\}, \{0.16177169928112605, 0.2935715537444358\}, \{0.16177169928112605, 0.2935715537444358\}, \{0.16177169928112605, 0.2935715537444358\}, \{0.16177169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.2935715537444358\}, \{0.1617169928112605, 0.29357155506, 0.2935715506, 0.2935715506, 0.2935715506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.293571506, 0.29571506, 0.29571506, 0.29571506, 0.295
          \{-1.7168158123204487, 2.0990288637129226\}, \{-1.1661377215190767, 2.7502035679028825\}\}
 (* println(collisions([0.5,0.1],[-0.42,0.23],0.3,10)[1]) *)
 Show[circles, ListPlot[points, Joined \rightarrow True, PlotStyle \rightarrow Directive[Thickness[0.005]]]]\\
                                                                 -2
```

circles :=