CP.4.5.4.a, Sauer3

Find the point (x, y) and distance K that minimizes the sum of squares distance to the circles with radii increased by K, as in Example 4.23. Plot the results.

Circles with centers $(-2, 0),\ (2, 0),\ (0, 2),\ (0, -2)$, and $(2, 2)$ and radii $1,\ 1,\ 1,\ 1,$ and 2, respectively.