CP.4.5.1.b, Sauer3

Apply the Gauss–Newton Method to find the point $(\bar{x}, \bar{y})$ for which the sum of the squared distance to the three circles below is minimized. Use initial vector $(x_0, y_0) = (0, 0)$.

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