

CP.4.5.1.a, 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 $(0, 1)$, $(1, 1)$, $(0, -1)$ and all radii 1.