

**CP.2.7.5.a, Sauer3**

Use multivariate Newton's Method to find the two points in common of the three given spheres in three-dimensional space.

- a. Each sphere has radius 1, with centers  $(1, 1, 0)$ ,  $(1, 0, 1)$ , and  $(0, 1, 1)$ .

The answers are  $(1, 1, 1)$  and  $(\frac{1}{3}, \frac{1}{3}, \frac{1}{3})$ .